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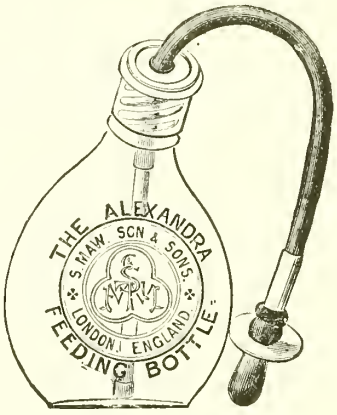

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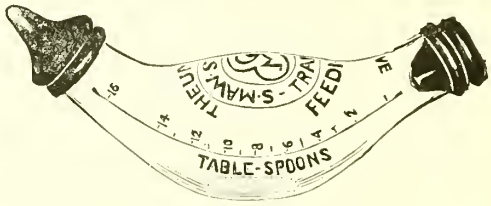

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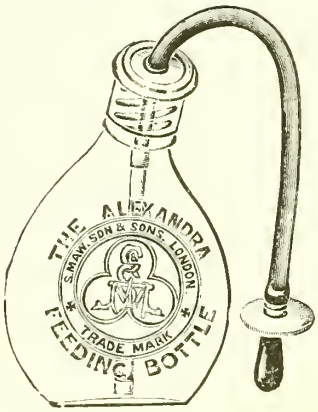

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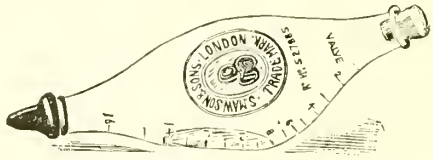

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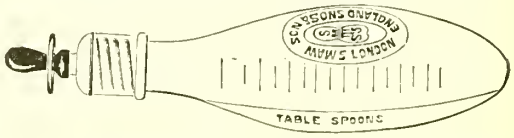

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INDEX TO ADVERTISEMENTS IN THIS ISSUE.

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The Arabic numerals (1 to 32) in this Index refer to Advertisements in front of the literary pages; the Advertisements following the literary pages are numbered in Roman numerals (I to XXii).

Page
ators, Ltd. 22
cock's Plasters xx
en & Hanbury's, Ltd. ...*Cover*
iance Drug & Chemical Co. xiii
erican Animal Therapy
o., Ltd. 18
ollinnris Co., Ltd. .....*Cover*

ley, W. H., & Son, Ltd. ... xxi
rker, F. H. 29
rnett & Foster 20
sly, W. G. 29
l, J., Hills, & Lucas, Ltd. 30
nnett, E., & Son, Ltd. 16
doe & Fish .....*Col. Supp.*
rkefeld Filter Co., Ltd. 22
liner, Arthur xxi
ts & Co., Ltd. 13
mingham College of Phar-
macy 24
ckie, R. x
twright & Grey 25
ilton, J., & Co. (1909) xix
ddey & Bourdas 25
nd & Co., Ltd. 23
stol-Myers Co. 21
itish Drug Houses, Ltd. 32
nner, Mond & Co., Ltd. ... ii
rge, Warren & Ridgley,
td. xix
rroughs, J., Ltd. .....*Text* 360
rroughs, Wellcome & Co. ... 31
tler, T. E., Son & Co., Ltd. 29

dbury Bros. .....*Cover*
llard & Co. 28
rtwright, W. B., Ltd. xii
emical Works Flora Ltd. 3
emist's Co-operative Whole-
sale xv
ristie, Malcolm & Co. 28
risty, T., & Co. 29
leman & Co., Ltd. 22
ngreve, G. T. x
llwick, H. E. 28

isy, Ltd. 2
nysz Virus, Ltd. 18
venport, J. T., Ltd. xiv
y & Sons (Crewe), Ltd. ... ix
ansmere Manfg. Co. 19
gen, F. A. 25

Page
Ecsolent Compounds, Ltd. ... 29
Eston xi
Eucryl, Ltd. 3
Ewen, J., & Sons 12
Exchange Column .....*Col. Supp.*

Farmer, F., & Co. 28
Faulding, F. H., & Co. 21
Fentiman, A. G. 28
Fentiman, A. J., & Co. 29
Ferber, R., & Co. 29
Fink, F., & Co. 28
Fletcher, Fletcher & Co., Ltd.
Text 360

Galen Manfg. Co. 29
Gardner, W., & Sons (Glouces-
ter), Ltd. 16
Garroulds 14
Gathergood, Dr. xi
Gimber, W., & Son xviii
Glasgow School 24

Halder, E. C. 29
Harker, C. 25
Harker, C. R., Stagg & Mor-
gan, Ltd. 10
Harvey & Co. (Dublin), Ltd. 18
Henry, T. & W. x
Herpicide, The, Co. 11
Hicks, J. J. 27
Hoffman-La Roche, Ltd. v
Howarth & Fair xi
Hubbuck, T., & Son, Ltd. iv
Hughes, E. Griffiths 29
Hull Oil Mnfg. Co., Ltd. xii
Huntley, Boorne & Stevens,
Ltd. 26
Hutchinson Co., The xviii

Ichthyol Co. vi
Ilford, Ltd. .....*Cover*
Ingram & Royle, Ltd. 21
Iron Ox Remedy Co., Ltd. ix
Isaacs, I., & Co. 16

Jackson, T. 15
Jackson, W. & H. 19
John, H. C. 17
Johnsen & Jorgensen xxii

Kay Bros., Ltd. 19
Keane, T. 16

Page
Lalor, Dr. v
Leeds College of Pharmacy ... 24
Lescol Perfumery Co. 13
Levermore, A., & Co. 28
Lhermine & Cie. 12
Liverpool Lint Co. xviii
Lofthouse & Saltmer 23
London College of Chemistry 24

McAdam & Tuckniss.....*Col. Supp.*
Macfarlan, J. F., & Co. iv
Manchester College of Phar-
macy 24
Maw, S., Son & Sons 4
May, Roberts & Co. .....*Cover*
Meyer, Heinr. & Co. vii
Millar, A., & Co., Ltd. 21
Mills, H. 26
Mitchell, N. W., & Sons, Ltd....xvi
Morris, A. G. vii
Montgomerie & Co., Ltd. iii
Muter's (South Loudon) School
of Pharmacy 24

Nathani, M. R. 28
National Cash Register Co.,
Ltd. 27
Nichols Chem. Co., Ltd. viii
Northern College of Pharmacy 24

Oldfield, Pattinson & Co. 9
O'Neill, S., & Sons, Ltd. 15
Orridge & Co. .....*Col. Supp.*

Papier Poudré, Ltd. 10
Patterson, Mitchell & Dawson 29
Pears, A. & F., Ltd. i
Phillips, Chas. H. Chemical
Co. .....*Text* 360
Pindar, J. W., & Co. 29
Potter & Clarke, Ltd. xvii

Quelch, H. C., & Co. 14

Ransom, Wm., & Son 12
Raphael's, Ltd. 25
Riedel, The J. D. Co. vi
Robare's Aureoline xvi
Rogers & Co. 26

Saccharin Corporation, Ltd. ... 23
Sanitas Co., Ltd. .....*Text* 360

Page
Sankyo & Co. vii
Scheller, E., & Co. x
Schimmel & Co. vi
Schutze, F., & Co. ....28, xvi
Scrubb & Co. 11
Shaw, H., & Co. 3
Shirley Bros., Ltd. xix
Singleton & Cole, Ltd. 28
Smith, B. A., & Co. viii
Smith, E. J. ix
Smith, J. H., & Co. 18
Smith, W. H., & Son .....*Text* 360
Solport Bros. xx
South of England College of
Pharmacy 24
Standard Tablet & Pill Co. ... 1
Stedman, Dr. 28
Stern Sonneborn Oil Co., Ltd. 15
Stokes, F. J., Machine Co. 16
Surgical Hosiery Co., Ltd. ... xxi
Swales, T. xix

Thompson & Capper 16
Thompson Bros. 26
Tomlinson, T., & Son ...*Col. Supp.*
Tomoda, K., & Co. vii
Tompkins, J., Ltd. 28
Tye, J., & Son xx
Tyrer, Thos., & Co., Ltd. xi

Van Abbott, G., & Sons 28
Vibert, F. 10
Viscose Development Co., Ltd. 11

Wardale & Co., Ltd. 29
Warne, W., & Co. xx
Washington Chem. Co., Ltd. ... xi
Wattenbach, Oscar 28
White, A., & Sons v
Wilcox, Jozeau & Co. .....*Text* 360
Willows, Francis, Butler &
Thompson, Ltd. viii
Wilson Veterinary Medicine
Co. 29
Wolfensberger, J. H., & Co. xvi
Wood, V. xviii
Woods, W., & Son 15
Wright & Son xi

Youldon, E., Ltd. xx

Zimmermann, A. & M. ..... 12, xvi
Zimmermann, C., & Co. 3

UYERS' GUIDE FOR GOODS ADVERTISED IN THE C. & D.

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DIABETIC BREAD AND FO
Bruneon Jenne
Callard & Co.
Van Abbott, G., & Sons

DIGESTIVE PRODUCTS
Armour & Co., Ltd.
Benger's Food, Ltd.
Fairchild Bros. & Foster
Parke, Davis & Co.
Squire & Sons
Zimmermann, C., & Co.

DOUCHES
Reuter, R. J.

DRUGGISTS' SUNDRIES
Ayrton, Saunders & Co., Ltd.
Barclay & Sons, Ltd.
Berliner, Arthur
Burge, Warren & Ridgley
Bush, H. W., & Co., Ltd.
Chemist's Co-operative Wholesale
Christy, T., & Co.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd
Hewlett, C. J., & Sons
Hovenden, R., & Sons, Ltd
Maw, S., Son & Sons
May, Roberts & Co., Ltd.
Newbery, F., & Sons, Ltd
Poths, H., & Co.
Quelch, H. C., & Co.
Reuter, R. J.
Sangers'
Schutze, F., & Co.
Shirley Bros., Ltd.
Solport Bros.
Southall Bros. & Barclay, Ltd.
Tidman & Son, Ltd.
Toogood, W., Ltd.
Wattenbach, C.
Wood, Vincent
Woolley, J., Sons & Co.

DRUGS, CRUDE
Baiss Bros. & Stevenson, Ltd.
Bernhardi, I.
Brook, Parker, & Co., Ltd.
Gathergood's Exor.
Horner & Sons
Hymans, H., & Co.
Potter & Clarke, Ltd.
Ransom, W., & Son
Salle, H., & Cie.

DYES
Judson, D., & Son
Whitaker & Co. (Hat)

EAU DE COLOGNE
Farina, J. M.
Farina, J. M. (No. 4)
Fickus, Courtenay & Co
McCracken, J. & R.
Schutze, F., & Co.

EDUCATIONAL INSTITUTIONS
Bath and West of England College of Pharmacy.
British Optical Institute
Edinburgh Central School
Glasgow School of Pharmacy
Harker, Charles
Leeds College of Pharmacy
Liverpool School of Pharmacy
London College of Pharmacy
Manchester College of Pharmacy
Muter's (So. Lond.) School
North of England School
Northern College of Pharmacy
Royal Dental Hospital
South of England College

EFFERVESCENT PREP.
Allen & Hanburys, Ltd
Baiss Bros. & Stevens, Ltd.
Bishop, Alfred, Ltd.
Blackie, R.
Bristol-Myers Co.
British Drug Houses, Ltd.
Butler, T. E., Son, &c.
Cox, A. H. & Co., Ltd
Davies, Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Goodall, Backhouse &
Guest, Thos., & Co.
Howards & Sons, Ltd
Kutnow, S., & Co., Ltd
Newball & Mason
Potter & Clarke
Shirley Bros., Ltd.
Standard Tablet & Pills.
Sturge, John & E.
Tyrer, T., & Co., Ltd.
Wright, Layman & Umney, Ltd.

ELECTRO-PLATING
Galvanit Mnfg. Co.

EMBROCATIONS
Chameleon Oil Co., L

ıSTIC HOSIERY
rton, Saunders & Co., Ltd.
orge, Warren & Ridgley, Ltd.
aywood, J. H., Ltd.
aw, S., Son & Sons
rgical Hosiery Co., Ltd.
ood, Vincent

ERY AND CLOTH
key, J., & Sons, Ltd.

JLSIONS, C.L.O., ETC.
en & Hanburys, Ltd.
rton, Saunders & Co., Ltd.
ıs Bros. & Stevenson, Ltd.
ckle, Robert
itish Drug Houses, Ltd.
ulding, F. H., & Co.
rker, Stagg & Morgan, Ltd.
rimer & Co., Ltd.
lfield, Pattinson & Co.
rke, Davis & Co.
ıtt & Bowne, Ltd.
ıthall Bros. & Barclay, Ltd.
olley, Jas., Sons & Co.
ight, Layman & Umney, Ltd.

MAS
lley, W. H., & Son
rge, Warren & Ridgley, Ltd.
ıol Rubber Co.
lw, S., Son & Sons
good, W., Ltd.
ne, W., & Co. Ltd.

OMOLOG. APPARATUS
ıkins & Doncaster

POM SALTS
ıards & Sons, Ltd.

SINCES, CONCRETE
ıtier Fils
ıray O., & Co., Ltd.

SINCES, SOL. AND FRUIT
ıance Drug & Chem. Co.
ıett & Foster
ke, Roberts & Co., Ltd.
ıh, W. J., & Co., Ltd.
rst Bros.
, Wm., Ltd.
ıtier Fils
ıion Essence Co.
ıer & Co., Ltd.
ıhall & Mason
ıcer, J., Son & Co.
ıenson & Howell, Ltd.
ımermann, A. & M.

TURS
ıs Bros. & Stevenson, Ltd.
ıarlan, J. F., & Co.
& Baker, Ltd.
T., & Co., Ltd.
e, A., & Sons

UCALYPTUS OIL
ıs Bros. & Stevenson, Ltd.
ıh Drug Houses, Ltd.
ıns, H., & Co.

XTRACT OF HERBS
Neıall & Mason
Por & Clarke

XTRACTS (MEDICINAL)
All Stafford, & Sons, Ltd.
Chemist's Co-operative Wholesale
Evans Sons Lescher & Webb
Ga rgood's Exor.
Hewett, C. J., & Son, Ltd.
Pa, Davis & Co.
Ra m, W., & Son
(Also WHOLESALE DRUGGISTS)

EEDING BOTTLES
Bre, E., & Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Hovden, R., & Sons, Ltd.
Kil Bros., Ltd.
Maw S., Son & Sons
Sanıs'
Solıt Bros.
Sou ll Bros. & Barclay Ltd.

ERTILISERS
Neu Kalisyndikat
Voss Walter, & Co.
Witl Chemical Manure Co.

ILTES
Berkeld Filter Co., Ltd.
Seit Theo

NGE STALLS
Solp Bros.

LESGLOVES
Sangs'
Solpc Bros.

LYCHERS
Alabine Co. (British), Ltd.
Dean ere Manfg. Co.
Ford hapland & Co.
Frow, C.
Jack, W. & H.
Kay os., Ltd.
Smit J. H., & Co.
Tunh ge & Wright

FOODS, INFANTS'
Allen & Hanburys, Ltd.
Benger's Food, Ltd.
Frame Food Co., Ltd
Lofthouse & Saltmer
Natural Food Co., Ltd.
Willows, Francis B. & T.

FOODS, SPECIAL
Allen & Hanburys, Ltd.
Bayer Co., Ltd.
Benger's Food, Ltd.
Brand & Co., Ltd.
Brnsson Jeune
Burt, C. J.
Callard & Co.
Deans, Logan & Co., Ltd.
Fairchild Bros. & Foster
Frame Food Co., Ltd.
Menley & James, Ltd.
Natural Food Co., Ltd.
Virol, Ltd.
Wander, A

FRUIT SYRUPS
Idris & Co., Ltd.

ULLER'S EARTH
Mumford, G. S., & Sons

FUNNELS, ALUMINIUM
Reuter, R. J.

GLAUBER'S SALT
Bramwell, E., & Son
Howards & Sons, Ltd.

GLYCERIN
Fuerst Bros.
Meffert, Hermann & Co.
Price's Patent Candle Co.
Steven, Andrew, & Son

GLYCERIN PLANT
Forshaw, E., & Son, Ltd.

GLYCEROPHOSPHATES
Merck, C.

GOLDBEATER'S SKIN
Gutmann & Leslie Gates

GOLD PAINT
Judson, D., & Son

GRINDERS, DRUG, ETC.
Allen, Stafford, & Sons, Ltd.
Goodall, Backhouse & Co.
Willows, Francis B. & T.

GUMS
Fink, F., & Co.

HAIR DYES
Blackie, Robert
Harker, Stagg & Morgan, Ltd.

HAIR PREPARATIONS
Bates, F. W.
Blackie, Robert
Capsuloids (1909), Ltd.
Chesebrough Manfg. Co.
Edwards' "Harlene" Co.
Egglossa Mnfg. Co.
Harker, Stagg & Morgan, Ltd.
Herpicide Co.
John Strange Winter
Robare's Aureoline
Rowland, A., & Sons
To-Kalon Mnfg. Co., Ltd.

HAT DYES
Whitaker & Co.

HERBS
Brook, Parker & Co., Ltd.
Potter & Clarke, Ltd.
Ransom, W., & Son

HOMŒOPATHIC MEDICINES
Ashton & Parsons, Ltd.
Epps, James, & Co.
Keene & Ashwell, Ltd.
Leath & Ross

HOTELS
Esmond Hotel
Kingsley Hotel
Thackeray Hotel

HOT-WATER BOTTLES
Berliner, Arthur
Burge, Warren & Ridgley
Dunlop Rubber Co., Ltd.
Galen Mfg. Co., Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Southall Bros. & Barclay
Tompkins, James, Ltd.
Wood, Vincent.

HEATING APPARATUS
Clark, S., & Co.

HYDROGEN PEROXIDE
May & Baker, Ltd.
Sanitas Co., Ltd.
Tyrer, T., & Co., Ltd.

HYPOPHOSPHITES
May & Baker, Ltd.
Tyrer, T., & Co., Ltd.

INHALERS
Maw, S., Son & Sons

INSECT POWDER
Keating, Thomas
Shirley Bros., Ltd.

INSECTICIDES
Acme Chemical Co., Ltd.
Corry & Co., Ltd.
Christy, Thos., & Co.
Howarth & Fair
Tomlinson & Hayward, Ltd.
Voss, Walter, & Co.

INVALID CHAIRS
Ellmore, W. T., & Son, Ltd.

IODINE AND IODIDES
Howards & Sons, Ltd.
Morson, T., & Son

ITROSYL
Fletcher, Fletcher & Co.

JARS AND POTS
Breffit, E., & Co., Ltd.
Bush, H. W., & Co., Ltd.
Christy, T., & Co.
Johnsen & Jorgensen Ltd.
Kilner Bros., Ltd.
Lang, Jules, & Son
Maw, S., Son & Sons
Poths, H., & Co.
Reuter, R. J.
Stipendum Stopper Co.
Toogood, W., Ltd.

LACTIC FERMENT PREPS.
Allen & Hanburys, Ltd.
Cox, Arthur H., & Co., Ltd.
Davies Sons & Co.
Evans Sons Lescher & Webb, Ltd.
Lloyd, T. Howard, & Co.
Martindale, W.
Parke, Davis & Co.
Standard Tablet Co.
Wilcox, Jozeau & Co.

LANOLINE
Burroughs Wellcome & Co.
Christy, T., & Co.

LARD
Ewen, J., & Sons

LIME JUICE AND CORDIAL
Evans Sons Lescher & Webb
Goodall, Backhouse & Co.

LINSEED, CRUSHED, ETC.
Allen, Stafford, & Sons
Mumford, G. S., & Sons

LINTS
Liverpool Lint Co.
Robinson & Sons, Ltd.
Taylor, W. G.
Vernon & Co., Ltd.

LIQUORICE JUICE
British Drug Houses, Ltd.
Evans, Gray & Hood
Fuerst Bros.
Evans Sons Lescher & Webb, Ltd.
Horner & Sons
Jackson, E. E.
Mumford, G. S., & Sons

LIQUORS, CONC., ETC.
Fletcher, Fletcher & Co.
Hewlett, C. J., & Son
Robinson, B., & Co.

LITHIA SALTS
British Drug Houses, Ltd.
Fuerst Bros.
May & Baker, Ltd.
Merck, E.

LOZENGES
Ayrton, Saunders & Co., Ltd.
Cox, A. H., & Co., Ltd.
Denoual, J., & Co.
Guest, Thos., & Co.
Jackson, E. E.
Potter & Clarke, Ltd.
Raimes & Co.
Warrick Bros.

MACHINERY, PHARMACAL
Allen & Hanburys, Ltd.
Bennett, E., & Son, Ltd.
Bennett, Sons & Shears, Ltd.
Braithwaite H., & Co., Ltd.
Forshaw, E., & Son, Ltd.
Gardner, Wm., & Sons, Ltd.
Pindar, J. W., & Co.
Smith, B. A., & Co.
Stokes, F. J., Machine Co.
Thompson & Capper (Stokes)
Wilkinson, S. W., & Co.

MAGNESIA AND ITS SALTS
Henry, T. & W.
Howards & Sons, Ltd.
May & Baker, Ltd
Parke, Davis & Co.
Washington Chemical Co., Ltd.

MAILING CASES
Estes, E. B., & Sons

MARKING INK
Hickisson, A. (Bond's)

MALT EXTRACT AND PREPS
Allen & Hanburys, Ltd.
Blackie, R.
British DiaMalt Co.
Burroughs Wellcome & Co.
Evans Sons Lescher & Webb
Hewlett, C. J., & Son
Lorimer & Co., Ltd.
Montgomerie & Co., Ltd.
Oppenheimer, Son & Co., Ltd.
Paine & Co., Ltd.
Southall Bros. & Barclay, Ltd.
Woolley, Jas., Sons & Co., Ltd.
Wright, Layman & Umney

MEASURES
Beatson & Co.
Bush, H. W., & Co., Ltd.

MEAT EXTRACTS
Armour & Co., Ltd.
Brand & Co., Ltd.

MEDICINE CHESTS
Burroughs Wellcome & Co.
Keene & Ashwell, Ltd.
Leath & Ross
Lloyd, T. Howard, & Co.
Parke, Davis & Co

MENTHOL CONES
Bush, H. W., & Co., Ltd.
Lubenow, Hugo, Ltd.
Maw, S., Son & Sons

MERCURIALS
Howards & Sons, Ltd.
May & Baker, Ltd.
Merck, E
Tyrer, T., & Co., Ltd.

METEOROLOGICAL SETS
Darton, F., & Co.

ETHYLATED SPIRIT
Burrough, J., Ltd.
Preston's Liverpool Distillery
Randall & Son, Ltd.

MICROSCOPES
Darton, F., & Co.

MINERAL WATERS AND SALTS
Apollinaris Co., Ltd.
British Drug Houses, Ltd.
Burrow, W. & J.
Cheltenham Municipality
Findlater & Co., Ltd.
Hughes, E. Griffiths
Ingram & Royle, Ltd.
Vichy (State Springs)

MUSK ARTIFICIAL
Mallmann, W.

OILS, ESSENTIAL
Allen, Stafford, & Sons, Ltd.
Alliance Drug & Chem. Co.
Bennett Bros.
Boake, Roberts & Co.
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Dodge & Olcott Co.
Evans Sons Lescher & Webb, Ltd.
Fuerst Bros.
Horner & Sons
Jakson, J., & Co.
Lautier Fils
Lhermine & Cie.
London Essence Co.
Macajone, Eugenio, & Co.
Pasquale, S. F. de, & Fratelli
Poppelreuter, W
Ransom, W., & Son
Scheller, Emil, & Co.
Schimmel & Co.
Spencer, J., Son & Co.
Stevenson & Howell, Ltd.
Wright, Layman & Umney, Ltd.
Zimmermann, A & M.

OILS, FATTY, ETC.
Allen, Stafford, & Sons, Ltd.
Fuerst Bros.
Price's Patent Candle Co.
Schliemann's Oil & Ceresine Co.
Wood, Chas. E.

OILS, MINERAL
Fuerst Bros.
Price's Patent Candle Co.
Stern Sonneborn Oil Co., Ltd.

OINTMENTS
Blackie, R.
Burgess, E.
Calvert, F. C., & Co.
Chemist's Co-operative Wholesale
Lyle & Co.
Oldfield, Pattinson & Co.

OPTICAL GOODS
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's Ltd.

ORANGE WINE
Melrose-Drover Co. Ltd.
Millar, A., & Co., Ltd.

OTTO OF ROSE
Bontoheff & Kidoff
Reitmeyer & Co. (synthetic)
Shipkoff & Co.

OXYGEN APPARATUS
Oppenheimer, Son & Co., Ltd.

OZONE GENERATOR
Renter, R. J.

PALATINOIDS
Oppenheimer, Son & Co.

PAPER TUBES
O'Neill, S., & Sons, Ltd.

PASTILLES
Allen & Hanbnrys, Ltd.
Asche, C. F., & Co.
Burroughs Wellcome & Co.
Denoual, J., & Co.
Epps, James & Co.
Evans Sons Lescher & Webb
Guest, Thos., & Co.
Wander, A.
Warrick Bros.

PATENT AGENT
Barker, R. W.

PERFUME FILTERS
Seitz, Theo.

PERFUME MATERIALS
Beisly, W. G.
Bontcheff & Kidoff
Bush, W. J., & Co., Ltd.
Chiris, Antoine
Compagnie Morana
Lautier Fils
Murray, O., & Co., Ltd.
Scheller, Emil & Co.
Schimmel & Co.
Shipkoff & Co.
Spencer, J., Son & Co.
Zimmermann, C., & Co.

PERFUMES
Allen & Hanbnrys, Ltd.
Barclay & Sons, Ltd.
Bronnley, H., & Co., Ltd.
Bush, W. J., & Co., Ltd.
Christy, T., & Co.
Chuit, Naef & Co.
Erasmio Co., Ltd.
Evans Sons Lesoher & Webb, Ltd.
Hewlett, C. J., & Son
Hovenden, R., & Sons, Ltd.
John Strange Winter
Lescol Perfumery Co.
McCracken, J. & R.
Maw, S., Son & Sons
Morison, G. H., & Co., Ltd.
Newbery, F., & Sons, Ltd.
Oatine Co.
Queloh, H. C., & Co.
Southall Bros. & Barclay
Spencer, J., Son & Co.
To-Kalon Mnfg. Co., Ltd.
Warrick Bros.
West, T., & Son

PESSARIES
Burge, Warren & Ridgley
Rendell, W. J.

PETROLEUM JELLY
Chesebrough Mfg. Co.
Schliemann's Oil & Ceresine Co.

PHOTO. CHEMICALS
Boehringer, C. F., & Soehne
Reitmeyer & Co.

PHOTO. ENLARGERS, PRINTERS, &c.
Done, John
Express Developing Co.
Halifax Photographic Co.

PHOTO. GOODS
Barclay & Sons, Ltd.
Burroughs Wellcome & Co.
Darton, F., & Co.
Evans Sons Lescher & Webb, Ltd.
Halifax Photographic Co.
Ilford, Ltd.
Kent, G. B., & Sons, Ltd.
Lennon, Ltd.
May, Roberts & Co.
Newbery, F., & Sons, Ltd.
Reitmeyer & Co.

PILL COUNTERS
Bornkessel, F. G.

PILL MAKERS
Allen & Hanburys, Ltd.
Asche, C. F., & Co.
Bishop, Alfred, Ltd.
British Drug Houses, Ltd.
Cox, A. H., & Co., Ltd.
Davies, Sons & Co.
Howards & Sons, Ltd.
Lloyd, T. Howard, & Co.
McKesson & Robbins
Parke, Davis & Co.
Standard Tablet & Pill Co.
Wand Mfg. Co.

PLASTERS
Allcock Mnfg. Co
Berliner, Arthur
Beiersdorf, P., & Co.
Dalmas, A. de St., & Co.
Geiger & Braun
Leslies, Ltd.
Maw, S., Son & Sons

PLEATED PAPER
Darter, Wilkinson & Co.

POLISHES (VARIOUS)
Bradley & Bourdas
Judson, Daniel, & Son
Oakey, J., & Son, Ltd.

POTASH
Neues Kalisyndikat

PRINTERS
Christie, Malcolm & Co.
Dudley & Co.
Ford, Shapland & Co.
Harrison & Waide
Smith, W H., & Son
Timme, W. O., & Co.
Townsend, J., & Sons

PROPRIETARY ARTICLES
Ashton & Parsons, Ltd.
Barclay & Sons, Ltd.
Bayer Co., Ltd.
Beecham, T
Bell, John, Hills & Lucas, Ltd.
Boulton, J., & Co.
Box, W. H.
British Drug Houses, Ltd.
British Liquozone Co.
Burgess, E.
Capsuloids (1909), Ltd.
Chameleon Oil Co., Ltd.
Christy, T., & Co.
Coleman & Co., Ltd.
Congreve, G. T.
Conoid Co.
Cox, A. H., & Co., Ltd.
Daggett & Ramsdell
Daisy, Ltd.
Danysz Virns, Ltd.
Da Silva & Co.
Davenport, J. T., Ltd.
Day & Sons (Crewe), Ltd.
Denoual, J., & Co.
Ecsolent Compounds, Ltd.
Edwards, W., & Son
Evans Sons Lescher & Webb, Ltd.
Faulding, F. H., & Co.
Fellows' Syrup
Fennings, Alfred
Ferris & Co
Freeman's Chlorodyne, Ltd.
Fulford, C. E., Ltd.
Goodall, Backhouse & Co.
Harvey & Co. (Dublin), Ltd.
Henry, T. & W
Hovenden, R., & Sons, Ltd.
Hughes, E. Griffiths
Ichthyol Gesellschaft
Ioternational Chemical Co.
Iron-Ox Rem. Co., Ltd.
Jackson, T.
Karox Mnfg. Co., Ltd.
Kay Bros., Ltd.
Kutnow S & Co Ltd.
Lalor's Phosphodyne
Lofthouse & Saltmer
Lorimer & Co., Ltd.
Martindale, W.
May, Roberts & Co.
Menley & James, Ltd.
Newbery, F., & Sons, Ltd.
Odol Chemical Works
Owbridge, W. T., Ltd.
Pedezy Co.
Phillips, Chas. H., Chem. Co.
Regulin Syndicate, Ltd.
Reitmeyer & Co.
Resinol Chemical Co.
Sangers'
Sartolin, Ltd.
Schimmel & Co.
Scott & Bowne, Ltd.
Squire & Sons
Standard Tablet & Pill Co.
Stedman's Teething Powders
Thompson & Capper
Tomoda, K., & Co.
Tunbridge & Wright
Voss & Co.
Walker & Son
Wilcox, Jozeau & Co.
Zimmermann, A. & M.
Zimmermann, C., & Co.
Zotos, Ltd.
(*See also* Dentrifices and Toilet Articles)

PULVELLÆ
Warrick Bros.

PULVERETTES
Oppenheimer, Son & Co., Ltd.

PUMPS
Berkefeld Filter Co., Ltd.

QUININE AND SALTS
Boehringer, C. F., & Soehne
Burroughs Wellcome & Co.
Howards & Sons, Ltd.
Pointet & Girard

RAZORS
Auto-Strop Safety Razor Co.
International Distributing Co.

RENNET
Fullwood, R. J., & Bland
Oldfield, Pattinson & Co.

RESINS AND RESINOIDS
Allen, S., & Sons, Ltd.
Allen & Hanburys, Ltd.
Morson, T., & Son
Ransom, W., & Son
Smith, T. & H., Ltd.

RESPIRATORS
Zimmer & Co.

RUBBER GOODS
Burge, Warren & Ridgley, Ltd.
Davol Rubber Co.
Dunlop Rubber Co., Ltd.
Evans Sons Lescher & Webb, Ltd.
Galen Mfg. Co.
Hanover Rubber Co.
Haywood, J. H., Ltd.
Hovenden, R., & Sons, Ltd.
Hutchinson Co.
Maw, S., Son & Sons
May, Roberts & Co.
Shirley Bros., Ltd.
Warne, W., & Co., Ltd.

RUBBER SPONGES
Hanover Rubber Co.

SACCHARIN
Saccharin Corporation, Ltd.

SALICIN
Macfarlan, J. F., & Co.
Smith, T. & H., Ltd.

SAMPLE CASES
Keane, Thomas

SANTONIN
Smith, B. A., & Co.

SAPONIN
Field, C. W.
Sthamer, Dr. R.

SAUCES
Goodall, Backhouse & Co.

SCALE PREPARATIONS
Morson, T., & Son

SCALES, WEIGHING
Maw, S., Son & Sons
Parnall & Sons, Ltd.
Southall Bros. & Barclay, Ltd.

SEA SALT
Tidman & Son, Ltd.

SEA SICKNESS REMEDY
Zotos, Ltd.

SEEDS
Bernhardi, I.
Brook, Parker & Co., Ltd.
Conway, Wm., & Sons, Ltd.
Potter & Clarke, Ltd.

SERUMS AND ANTITOXINS
Allen & Hanburys, Ltd.
American Animal Therapy Co.
Evans Sons Lescher & Webb
Parke, Davis & Co.
Schimmel & Co.
Wilcox, Jozeau & Co.

SHARES
McAdam & Tuckniss

SHEEP-DIPS
Acme Chemical Co., Ltd.
Burt, Boulton & Haywood
Sanitas Co., Ltd.
Tomlinson & Hayward, Ltd.

SHOP-FITTING
Ayrton-Graham, Ltd.
Bowling & Son
Evans Sons Lescher & Webb, Ltd.
Josephs, Philip, & Sons, Ltd.
Maw, S., Son & Sons
Mills, H.
Parnall & Sons, Ltd
Rudduck & Co.
Sangers'
Southall Bros. & Barclay, Ltd.

SOAP MATERIALS
Armour & Co., Ltd
Chiris, Antoine

SOAP PLANT
Forshaw, E., & Son, Ltd.

SOAPS, MEDICATED
Armour & Co., Ltd.
Bronnley, H., & Co., Ltd.
Calvert, F. C., & Co.
Fulford, C. E., Ltd.
Lambert Pharmacal Co.
Resinol Chemical Co.
Wright Layman & Umney

SODA FOUNTAINS
Consol Automatic Aerators, Ltd

SODIUM BICARBONATE
Brunner, Mond & Co., Ltd.
Howards & Sons Ltd.
Mumford, G. S.

SOAPS
Allen & Hanbnrys, Ltd.
Armour & Co., Ltd.
Bell (John), Hills & Luc Ltd.
Bronnley, H., & Co., Ltd
Chesebrough Mfg. Co.
Cook, E., & Co., Ltd.
Erasmio Co., Ltd.
Evans Sons Lescher & We Ltd.
Hull Oil Mfg. Co., Ltd.
International Distributi Co.
John Strange Winter
Lescol Perfumery Co.
Oakley, J., & Son, Ltd.
Pears, A. & F., Ltd.
Peats Products (Sphagn Ltd.
Price's Patent Candle Co
Shaw, Henry, & Co.
Wright, Layman & Umr

SOOTHERS & FITTING
Shirley Bros., Ltd.

SOYA OIL
Hull Oil Mnfg. Co.

SPARKLETS
Aerators, Ltd.

SPECTACLES
Botwright & Grey
Darton, F., & Co.
Maw, S., Son & Sons
Nitsche & Günther
Raphael's, Ltd.

SPHYGMOMETERS
Hicks, J. J

SPINAL CARRIAGES
Ellmore, W. T., & Son, Ltd.

SPIRIT OF WINE
Burrough, J., Ltd.
Preston's Liverpool Distillery

SPONGE BAGS
Maw, S., Son & Sons
Schutze, F., & Co.
Toogood, W., Ltd.

SPONGES
Interni. Sponge Importe
Kent, G. B., & Sons, L.
Maw, S., Son & Sons
Sangers'

SPONGES, COVERED
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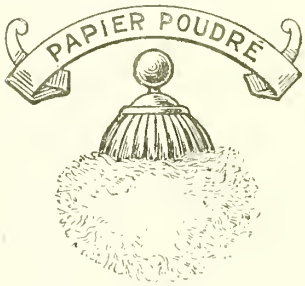

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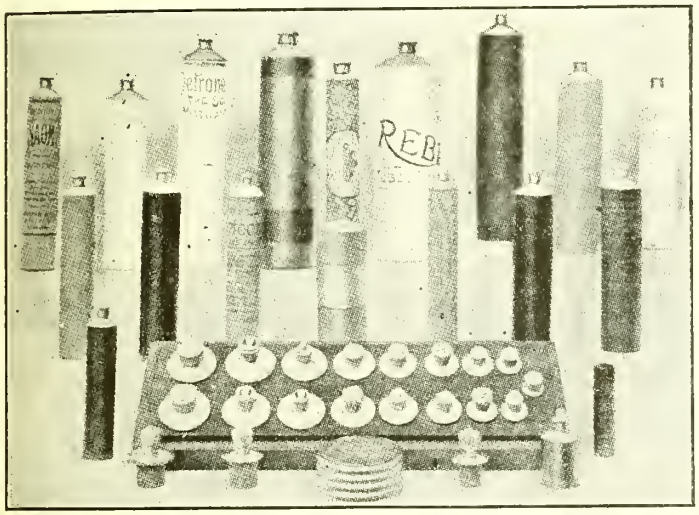

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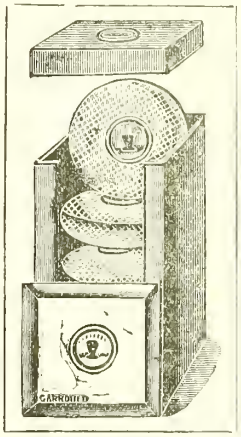

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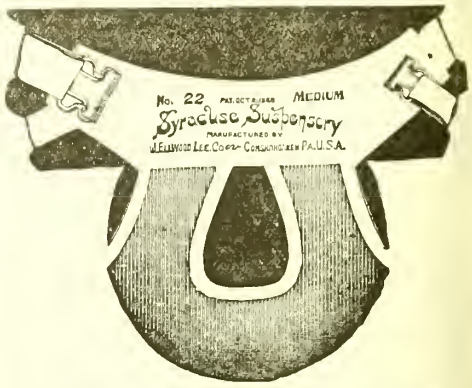

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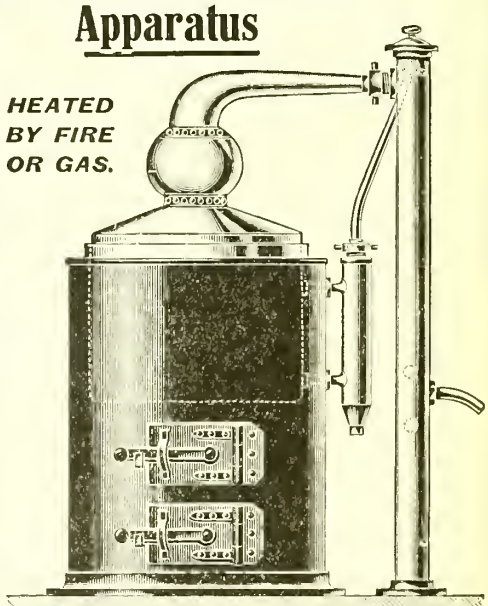

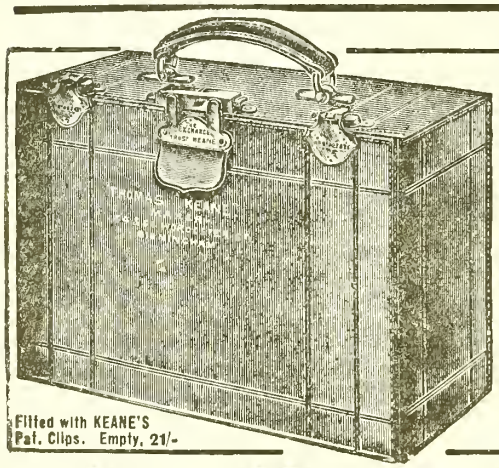

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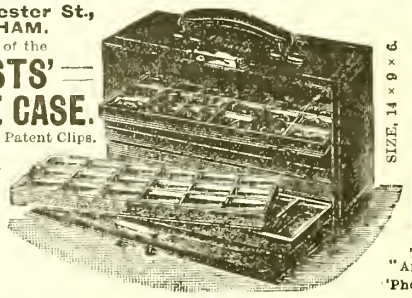
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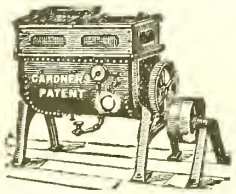

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From 55/- to £90.
CATALOGUES FREE.
WM. GARDNER & SONS, Engineers, GLOUCESTER.

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I. ISAACS & CO.'S REDUCED PRICES
106 MIDLAND ROAD, ST. PANCRAS, LONDON, N.W.
The New Shape, Oval Fronted Bottles, 6 ounce size, 8 6 per gross
A Sample Free on Application.
Will you please try our FIRST QUALITY BOTTLES, Round Edges, Plain or Graduated, Quinine Tinted.

3 and 4	6 and 8	12	16	ounce.
9/-	10/-	15/-	20/-	per gross.

Six gross assorted or otherwise sent carriage paid.
PANEL BOTTLES (New Series), Green or Blue Glass. Good Quality.

2	2½	4	6	8	10 ounce.	In ordering please say if
7/-	7/6	8/-	9/-	9/6	12/- per gross.	green or blue is required

WHITE PHIALS—GOOD QUALITY.

½	1	1½	2 ounce.	
3/6	4/-	4/6	5/6 per gross	Plain or teaspoons.

Six gross and upwards, assorted or otherwise, sent carriage paid to any address in the United Kingdom. Smaller quantities not carriage paid.
Established 120 years. Bankers: London County and Westminster Bank.

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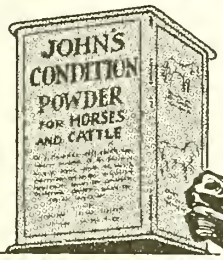

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EQUINOPULV (Regd.)

See What Users Think.

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Messrs. A. John & Co. *8th June, 1909.*
54 Piccadilly,
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Dear Sirs,—Having tested your Condition Powder upon a mare covered with a surfeit, and the result being most satisfactory in every way, we shall be pleased to recommend it to all workers of horses.

It not only removed the surfeit, but produced a fine glossy coat, and put the mare in a thoroughly good condition.

Yours faithfully,
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Raheen, Mountrath,
Queen's County, Ireland.
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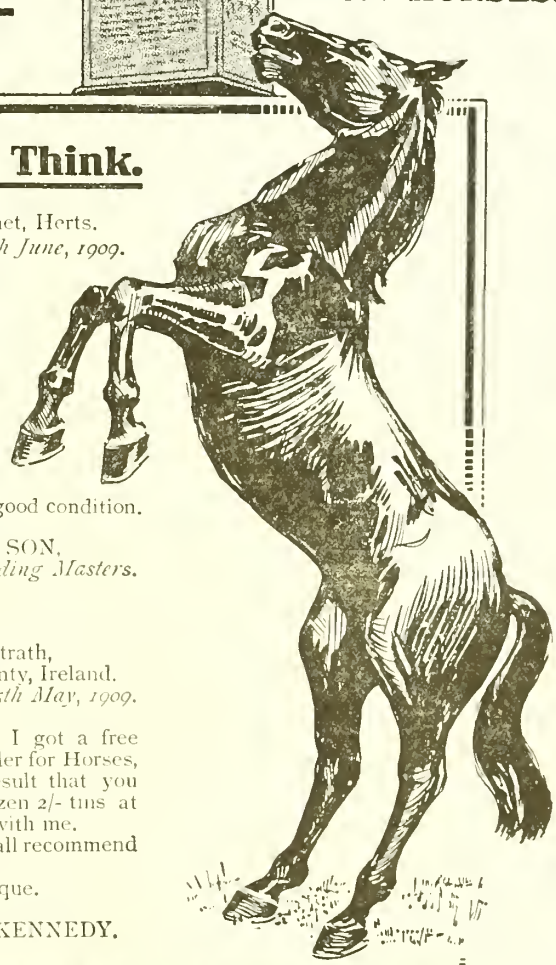
Dear Sirs,—A short time ago I got a free sample tin of your Condition Powder for Horses, and I am so pleased with the result that you will oblige me by sending one dozen 2/- tins at your wholesale price as arranged with me.

If as successful as last tin, I shall recommend your Powder to all my friends.

I herewith enclose you my cheque.

Yours faithfully,
(Signed) Rev. M. P. KENNEDY.



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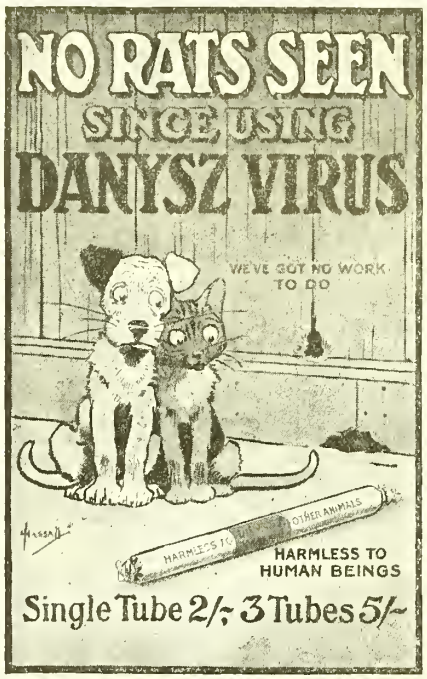

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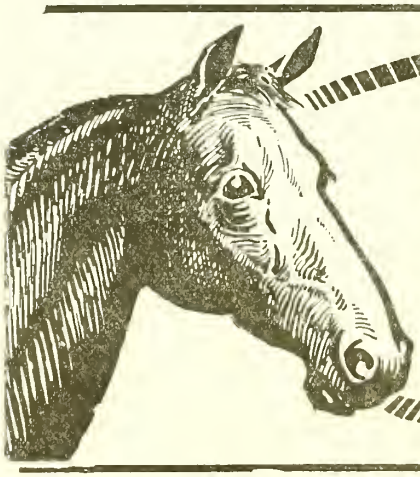

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HARVEY'S
GREAT REMEDIES
FOR THE HORSE.
Now on the P.A.T.A.
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These Animal Products are being extensively used with remarkable success as Cell Reconstructors in primary and severe cases of Neurasthenia, Nervous and General Debility, Neuritis, Impotency, Insomnia, Brain Fag, Neuralgia, Depression, and all diseases resulting from cell deterioration.

THE FORMULA OF LYMPHOID COMPOUND.

Lymphatic Glands, Testes, Brain and Spinal Cord	gr. 2	Glycero Phosphate Sod. and Calcium	gr. 2
Glycero Phosphate Iron	gr. ½	Strychnine Nit.	gr. 1/60
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Supplied only to the Medical Profession, or on prescription through Chemists, solely by

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Illustration shows actual size of roll.

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SILVERETTE

NEAT PLEASING AND EFFECTIVE

The Latest and Best.
Send for Samples.
They Will Convince You.

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A BIG CATCHER. VERY BROAD BAND.

Neat & Handy Contrivances.
Easy to Open.
Pull the String.
That's All !!!

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SMART & ATTRACTIVE. SELLS QUICKLY.

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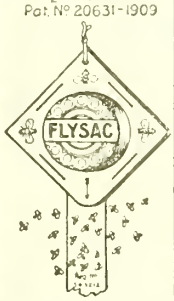

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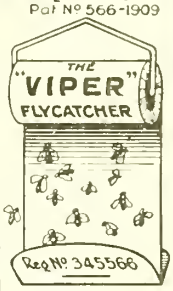

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Big Profits! Quick Returns!

Send for Samples and Prices. They bear out our claims.

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Sole Makers:

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(30 years' experience in the manufacture of Birdlimes and Flygums). 3

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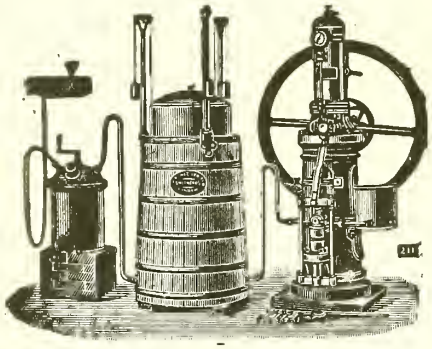

"THE NIAGARA."

This type is fast superseding all other makes, and is used in the leading manufactories of the world.

Size	Producing capacity per day	Price, with gas-making apparatus
X	100 dozen	£30
W	300 ,,	£45
U	450 ,,	£52
T	600 ,,	£70
S	1,200 ,,	£85
R	2,500 ,,	£135

Are all Fitted for Hand and Power.

NOTE.—We *include* all necessary Connecting Pipes free *without extra charge*, so that the machinery is ready for work upon arrival.

For larger sizes see Catalogue.

THE "IDEAL."

FILLING MACHINE,
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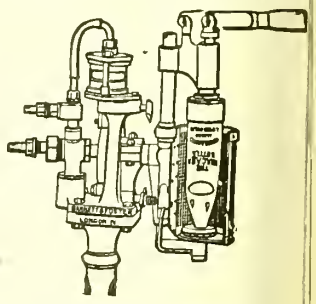

With Syrup Pump ... £9 9 0
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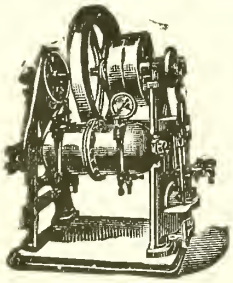

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Complete with Gas-making Apparatus, all pipings and connections included.

No. 1 size, producing 600 dozen in 10 hours £62 0 0
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No. 1 is fitted for Hand Power; No. 2 for Motive Power.

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FILLING MACHINE FOR SYPHONS.

THE SIMPLEST OF ANY SYPHON FILLER YET INTRODUCED.

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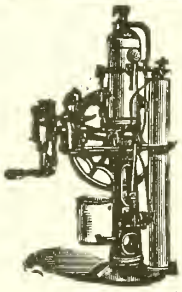
Low Pressure Attachment whereby half the Carbonic Acid Gas is saved, with better product resulting. For use with any Filling Machine £7 7 0



THE "COMPACT."

For Use with Compressed Carbonic Acid Gas.

In use by the leading Chemists, Hotels, Hospitals, and Public Institutions throughout the United Kingdom.

The Most Successful Machine of the Times.
The Perfection of Simplicity.
Automatic Carbonation.

PRICES.

No. 1.—Capacity 1,200 dozen per day, including Filling Machines for Bottles *and* Syphons £60 0 0
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No. 3.—Capacity 300 dozen per day, including Filling Machines for Bottles *or* Syphons ... £33 0 0

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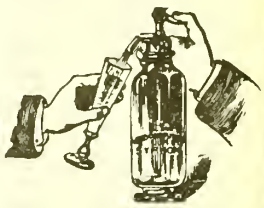

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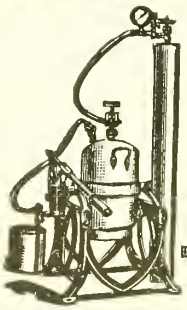
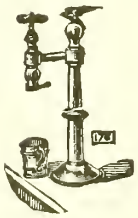
AT LOWEST RATES.

Prices upon application.





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Specially suitable for Hotels, Chemists, Confectioners, Pastrycooks, &c.

The latest development in Filling Systems is the

LOW-PRESSURE PRINCIPLE

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IRISINE (Violet) 100% chem. pure
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"Milk Emulsion" is sold in Bottles only. Wholesale, by—

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Medium	"	7 "	"	"
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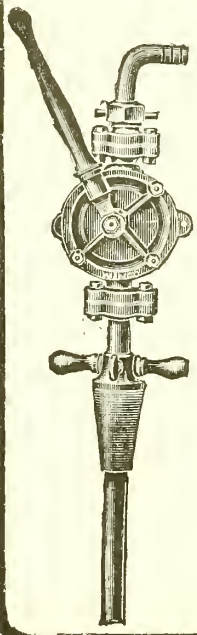

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Best Workmanship.

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Can be used for any liquid,
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Yours respectfully,
AERATORS LTD.

"Prana" Sparklet Works,
Upper Edmonton, N.
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The Gold Medal Wine Tonic

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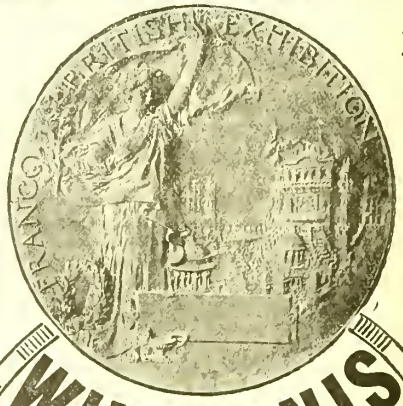

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All Registered Chemists can sell Wincarnis with Quinine without a licence. Why not you?

Medical men in your district order it often, and there is a large public demand. [18]

By Special Appointment to the King & Queen of Spain.

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Offices—165 Queen Victoria Street, London, E.C.

SACCHARIN, *Made in England.*

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Ordinary Strength.—330 times sweeter than pure Cane Sugar.

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IN BOTTLES,

Price 28/- per dozen,

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CONCENTRATED BEEF TEA, VEAL, MUTTON & CHICKEN BROTHS; TURTLE SOUP & JELLY, CALFS' FOOT JELLY, MEAT LOZENGES

ESSENCES OF BEEF, MUTTON, VEAL AND CHICKEN

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LOFTHOUSE & SALTMER, WHOLESALE AND EXPORT DRUG MERCHANTS, MANUFACTURING CHEMISTS, HULL,

invite the co-operation of the Trade in the sale of **LOSALL'S SALT,** which is well advertised, bears a **large protected** retail profit, is very popular, and sells freely.

The salt is sold in tins at **6d.** and **1/-,** and in bottles at **1/6** each, net wholesale prices **3/6, 7/-,** and **10/6** dozen respectively, and is stocked by all the London and Provincial Wholesale Patent Medicine Houses.

LOSALL'S SALT sells so well and yields so good a retail profit that it is strange we still keep receiving letters from London and the provinces enquiring where it can be obtained.

Men if Unqualified should Take an Easy Road to 'Success

BY JOINING THE

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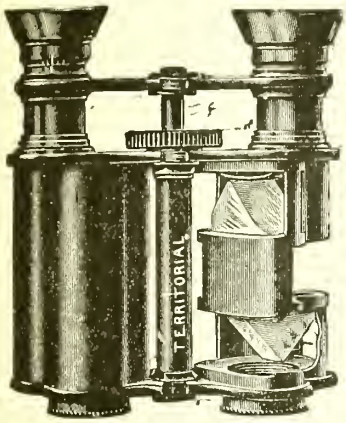

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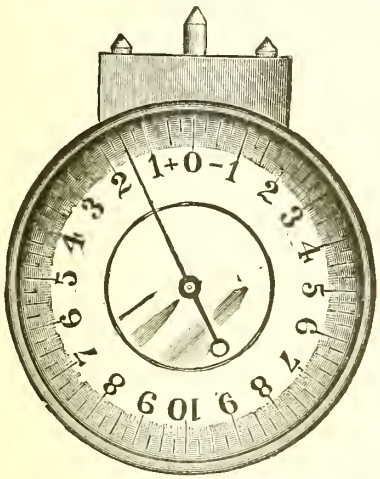

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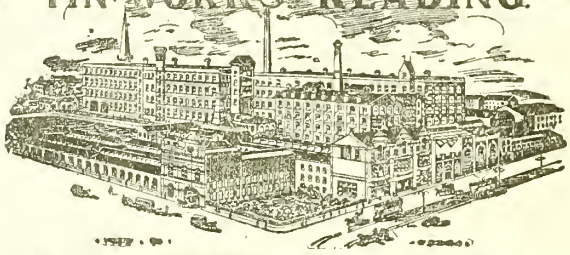

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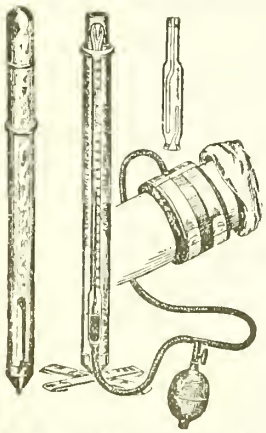

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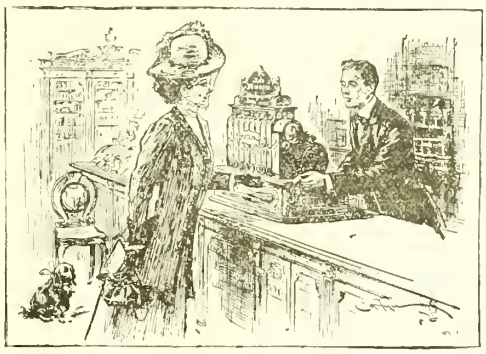

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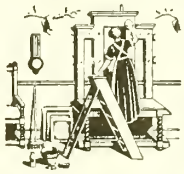
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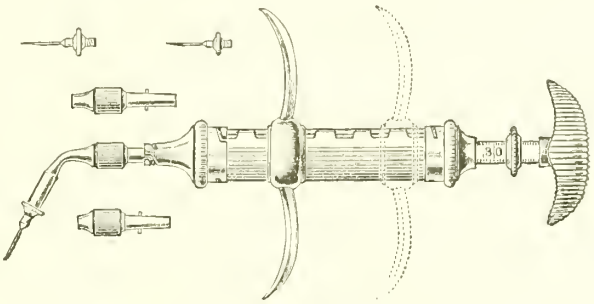

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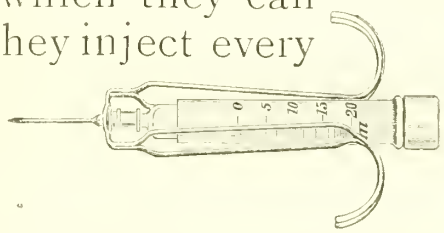

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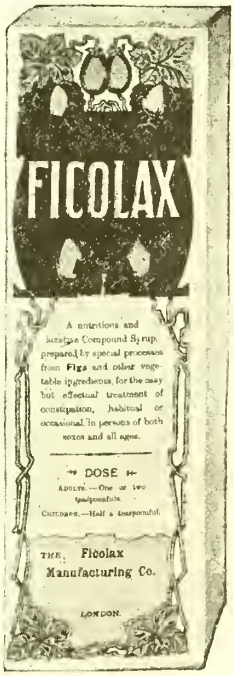

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CONTENTS: Vol. LXXVI., No. 18 (Series No. 1579).

[The folios in this List and in the Summary are those at the top of the pages, but references in the Text are to the serial folios at the bottom of the pages.]

	PAGE		PAGE
Association Affairs	59	Gazette	42
Australian Commerce Act	53	Here and There ...*Col. Supp.*	
Australasian News	39	Information Department	46
Births	43	Irish News	37
Brussels Exhibition	42	Legal Reports	40
Business Changes	55	Marriages	43
Canadian News	39	New Companies	43
Chemical Society	52	Nursing Exhibition	54
Coming Events ...*Col. Supp.*		Observations and Reflections	47
Company News	43	Patent Specifications	56
Contracts	55	Personalities	44
Corner for Students	34	Pharmaceutical Society of Great Britain: North British Branch	57
Correspondence	64	Poison-licences	46
Deaths	43	Poisonings	60
Editorial Articles:		Retrospect	66
Oleum Morrhuæ	48	Scots News	37
Licensed Poison-vendors	49	South African News	38
The New Japanese Tariff	50	Trade-marks Applied For	56
Notes	51	Trade Notes	54
English News	35	Trade Report	61
Essential Oils of the B.P.	51	Westminster Wisdom	45
Festivities	60	Wills, Recent	52
French News	38		

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Summary of this Issue.

The more notable items only are dealt with.

Articles and Communications.

The Huddersfield Chemists' Association think P.A.T.A. retail profits are too low (p. 64).

Important changes in the regulations under the Australian Commerce Act are described in an article on p. 53.

Mr. R. Winfrey, M.P., is to endeavour to secure exemption from jury-service for chemists and druggists (p. 51).

In the article on licensed poison-vendors we deal with a warning which has been issued to ironmongers (p. 49).

Mr. W. J. Brownscombe, of Melbourne, comments upon the proposed B.P. monograph for eucalyptus oil (p. 51).

The *ad valorem* duties of the revised Japanese tariff are strongly objected to. See questions in Parliament on p. 45 and our comments on p. 50.

Dr. Dobbin gives in the Students' Corner hints on the detection of aluminium and iron in presence of a phosphate, also as to testing for barium (p. 34).

The yield of cod-liver oil in certain future seasons may probably be foretold. Our first editorial article deals with hydrobiological investigations on the subject (p. 48).

"Xrayser II." discusses the curriculum question, the elimination of the druggist from pharmacy, the legal decisions of last week, and the claim of Hygeia to divine origin (p. 47).

The Week's News.

Some Australian Customs decisions are reported on p. 39.

Newfoundland chemists are taking steps to obtain a Pharmacy Act (p. 39).

The glass-bottle-making combine is causing trouble among the workmen (p. 36).

The Prime Minister holds out little hope of a Court of Reference in adulteration (p. 45).

In the Transvaal the Proprietary Poisons Schedule has been altered. The particulars are on p. 39.

Mr. Justice Joyce has refused to grant an injunction to restrain an architect using the designation "M.S.A." (p. 40).

The deaths of Mr. W. W. Flood (formerly of the Borough) and Mr. Luther Scammell, sen., of Adelaide, are reported (p. 44).

The judges of the Court of Appeal had the "Diamine" trade-mark case before them on Thursday, and reserved judgment.

The Chemical Society's meeting last week was interesting. A new method of estimating lead was described by Dr. Vernon Harcourt (p. 52).

A Nursing and Midwifery Conference and Exhibition are being held in London this week. We give notes on the Exhibition (p. 54).

There is trouble between the Pharmaceutical Council and the Privy Council as to the way that poison-licences have been granted in Dumfries (p. 57).

Further evidence in the proceedings under the Merchandise-marks Act against the London Produce Brokers' Co., Ltd., in respect to a parcel of olive oil is reported on pp. 40-2.

The result of our analytical tournament is announced on p. 35. The prizemen are: First, Mr. H. Brindle; second, Mr. W. J. Rankin, jun., and third, Mr. R. C. Crawford.

The hearing of the action of Thermos, Ltd., against Isola, Ltd., for alleged infringement of a patent was commenced by Mr. Justice Neville on Thursday, and is proceeding. It will be reported in our next issue.

At the North British Branch day-meeting last week papers were read on the solubility of magnesium sulphate, on ointments (very practical), and on the B.P. as a standard. The last, by Mr. Dott, was a criticism of Mr. Parry's recent *C. & D.* article (pp. 57-9).

Trade and Market Matters.

The market alterations include a 5*s.* decline in quicksilver, but mercurials are unaltered. Cod-liver oil is lower, fishing at Finmarken being satisfactory. Buchu, guinea-grains, carnauba wax, and wood oil are all higher, while articles on the easier side include lemon and orange oils, soda and potash prussiates (p. 61).

B

Corner for Students.

Conducted by Leonard Dobbin, Ph.D

All communications for this section should be addressed thus "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."

Report on April Analytical Exercise.

THE powder distributed to students on March 30 contained five parts by weight of lead chloride, four parts of barium phosphate, and one part of potassium bromide. The calculated composition of such a mixture is :

Pb	37.2
Ba	27.4
K	6.3
Cl	12.8
PO_4	12.6
Br	6.7
	100.0

The powder also contained recognisable traces of aluminium, calcium, and magnesium, and some hygroscopic or combined water.

Samples of the powder were distributed to thirty-nine students, and nineteen reports were sent in for examination. The failures in the detection of the several constituents were :— (*a*) Metallic radicals : Lead, 3 ; barium, 15 ; potassium, 6. (*b*) Acid radicals : Hydrochloric, 2 ; phosphoric, 4 ; hydrobromic, 9.

Free as it was from complications within any one analytical group, and presenting no serious difficulties as an insoluble phosphate mixture, this exercise nevertheless proved to be a somewhat troublesome one in the hands of many of our correspondents. One of the principal causes of this was the usually not quite complete removal of the lead, as sulphide, by means of hydrogen sulphide before the separation of the insoluble phosphate precipitate was effected, in consequence of which traces of lead gave rise to complications through being mistaken for other things at a later stage. This matter has been dealt with so frequently and so recently in this column that we shall not do more than draw our correspondents' attention to our general remarks regarding it in reporting on the analytical exercise of January last.

The exceedingly large proportion of failures in the detection of barium is the most striking feature this month. The majority of these failures seem to have arisen through some want of delicacy in the treatment of the insoluble phosphate precipitate. We note that many students when testing for aluminium in the hydrochloric-acid solution prepared from an insoluble phosphate precipitate, add, in their ordinary routine, both sodium or ammonium acetate and sodium or ammonium phosphate to the nearly neutralised solution, and then warm gently. The addition of the phosphate at this stage is always unnecessary, and is liable, moreover, to be hurtful. The solution under examination may or may not already contain enough of the phosphoric-acid radical to precipitate, as phosphates, the whole of the iron and aluminium that may be present, but in any case it is best to add the sodium or ammonium acetate alone to the properly prepared solution, to warm gently, and to observe whether or not any precipitate is produced. If none is produced, iron and aluminium may be assumed to be absent, and the solution may then be treated in the usual manner with ferric chloride to remove the phosphoric-acid radical. If a precipitate is produced, it will consist of ferric or aluminium phosphate, or both, while the phosphoric-acid radical will have been removed from the solution either completely or only partially—depending upon the quantity of iron and aluminium present. If the phosphoric-acid radical has been removed completely, then the filtrate need not be treated with ferric chloride at all, but only needs to be tested for metallic radicals of the iron, barium, and magnesium groups ; whereas if the phosphoric-acid radical is still present, only the barium and magnesium group metals need be tested for—of course, after the usual treatment with ferric chloride and the removal of the ferric phosphate by filtration. The unnecessary addition of a soluble phosphate, along with the sodium or ammonium acetate, necessitates the subsequent addition of a much greater quantity of ferric chloride than would otherwise be requisite, and a much greater quantity of ferric phosphate is, in consequence, produced. Now, this precipitate of ferric phosphate tends to carry down with it more or less considerable traces of barium and magnesium group phosphates, and, in this way, a large proportion of the whole of the metallic radicals belonging to these groups may be separated from the solution and rejected along with this precipitate. We believe it was in this way that many of our correspondents eliminated most of the barium from their solutions before they had got to the stage for testing for barium-group metals, since a few of them failed to obtain any precipitate on the addition of ammonium carbonate, and of those who did obtain a precipitate several described it as being very small. In view of the proportion of barium really present, the precipitate of barium carbonate formed ought to have amounted to nearly one-half of the weight of the original powder employed for the systematic examination for metallic radicals. We would suggest to those students who failed to find barium the desirability of preparing and systematically analysing the following mixture, which sufficiently resembles, especially in the features essential for practice in the insoluble-phosphate section, the exercise set for this month :

Lead acetate	3 parts by weight
Barium chloride	1 part ,,
Sodium phosphate	2 parts ,,

Prizes.

The first prize for the best analysis has been awarded to

Harry Brindle, 13 St. Helens Road, Bolton.

The second prize has been awarded to

Laurence E. R. Surtees, 14 Newgate Street, Morpeth.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Correspondents who are unqualified :*

Harry Brindle (first prize)	98	Litmus	62
L. E. R. Surtees (second prize)	82	Phloem	49
Neptunia	80	Oxygen	44
Hydroxide	79	A. F.	31
Rob Roy	78	Toxin	25
Polonium	68	Vol	23

2. *Correspondents who are qualified, or who have not indicated that they are unqualified :*

Boiling Point	97	Nitrax	59
Cobalt	94	Radium	53
Drumsheugh	77	Xenon	30
Labore	32		

To Correspondents.

L. E. R. Surtees.—Note that the complete solubility in h dilute hydrochloric acid of a powder containing a calciu salt does not by any means indicate that a sulphate may n be present in quantity, since calcium sulphate is freely solub in boiling dilute hydrochloric acid.

Polonium.—Since lead chloride is slightly soluble in wat and in dilute hydrochloric acid, the acid filtrate from t original precipitate of lead chloride ought to have given precipitate of lead sulphide on passing hydrogen sulphid that it did not do so must have been due to its containing t much free hydrochloric acid. Note that a blue colorati obtained on heating a powder on charcoal with cobalt nitrate may be produced by a variety of things besi aluminium compounds.

Litmus.—A precipitate which separates from the origi hydrochloric-acid solution of a powder and consists mai of lead chloride may contain some silver chloride or mercur chloride, since both of these chlorides are soluble to so extent in boiling dilute hydrochloric acid, and separate when the solution cools. It would appear from your rep that you tested for potassium in a solution derived from original phosphate precipitate, which did not contain potassium, and that you omitted to test for it in the filtr from this precipitate, in which it was present. Note t

in the chromyl-chloride test for chlorides bromine would be liberated from bromides, and would yield "brown fumes" even if chlorides were absent. Denigès' test for citrates was described in the *C. & D.* for March 26, 1904 (vol. lxiv., p. 484), and again in an answer to a correspondent in this column in the *C. & D.* for January 26, 1907

Phloem.—Your report is very fragmentary. It is likely that you employed hydrogen sulphide as a group reagent, but if you did you should have given some account of the result. A fuller report would have gained higher marks.

Oxygen.—As you do not state how you prepared the original solution of the powder, to which you added hydrochloric acid and hydrogen sulphide as group reagents, we cannot say exactly where you went astray, but the fact that you failed to detect lead proves that there was something far wrong in your procedure.

A. F.—It is unfortunate that you were prevented from devoting sufficient time to the analysis, as hurried work is not usually of an accurate description.

Toxin.—We have failed to obtain several of the reactions you describe—for instance, the evolution of ammonia on heating the original solution with potassium hydroxide; the production of a violet solution on boiling the powder with solution of sodium carbonate; the evolution of acetic acid on heating with sulphuric acid, etc. The powder did not contain sensible traces of arsenium.

Vol.—The powder was soluble to some extent in water, especially on boiling. You were led into serious error through failing to recognise the presence of a phosphate and to proceed with the analysis as is necessary in the case of insoluble phosphates.

Cobalt.—It is best, as a rule, to test for phosphoric acid after the hydrogen-sulphide precipitate has been removed and the filtrate from it has been evaporated to dryness, with the addition of a few drops of nitric acid, and the residue ignited.

Drumsheugh.—The form of your report is quite satisfactory, and you do not err in being either "too voluble or the reverse." There is not much to choose between a well-drawn-up report in paragraph form and one in tabular form such as that employed by you. There are objections to printing an "ideal" report—even if we presumed to attempt to write such—the chief objection being that slavish imitation might be encouraged thereby, and individuality and originality checked. We may refer you, however, to the reproductions of two first-prize papers which appeared in the *C. & D.* for May 30 and December 26, 1903, where the features of neatness and orderly arrangement may be seen.

Labore.—We could not obtain evidence of the presence of any trace of a carbonate. Read also the reply to "Vol" and the last sentence of the reply to "Polonium."

Nitrax.—In view of the known constituents of the powder, we find various reactions described in your report incapable of explanation—notably those indicating the presence of antimony and of an iodide.

Radium.—You do not appear to have tested for the presence of a chloride. See also the first sentence of the reply to "Labore." Thanks for pointing out that you were incorrectly addressed last month.

Xenon.—Had the precipitate (of barium chromate) proceeded on the addition of potassium chromate as a test for barium been moistened with hydrochloric acid prior to applying the flame-test, it would have imparted to the flame the green colour characteristic of barium.

The Tournament.

The foregoing report deals with the final exercise of the tournament announced in our issue for September 25, 1909, and we are now able to publish the results. The total number of students who took part in the competition was fifty-four. This is a smaller number than in several former sessions, but the contest has, nevertheless, been decidedly keen, and good useful work has been done. We send the names and scores of the prize-winners, offering to each of them our warm congratulations on the results of their work, and asking them to communicate with the Publisher as soon as possible as to the books they desire to take as prizes.

The first place has been taken by "Validol" (Mr. Harry Bridle, 13 St. Helens Road, Bolton), with the very creditable aggregate score of 548, made up of 95, 86, 96, 76, 97, and 98, and to him the first prize, of books to the value of 2*l.* 1*s.*, and a certificate, have been awarded.

The second highest aggregate score (533) has been made by "Boiling Point" (Mr. Samuel Holliday, 44 Worthing Road, Lowestoft), but as Mr. Holliday obtained the second prize in the tournament a year ago he is debarred by the published rules of the competition from taking any prize except the first; hence the second prize, of books to the value of 1*l.* 1*s.*, with a certificate, falls to "Litmus" (Mr. W. J. Rankin, jun., c/o R. Morrow, 25 Corn Market, Belfast), with the aggregate score of 496, made up of 91, 78, 89, 86, 90, and 62.

The third prize, of books to the value of 10*s.* 6*d.*, with a certificate, has been awarded to "Rob Roy" (Mr. Robert C. Crawford, c/o F. R. Parker, 130 Westgate Road, Newcastle-on-Tyne), whose aggregate score is 480, made up of 92, 95, 80, 78, 57, and 78.

English and Welsh News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

At Melton Mowbray on April 26, Herbert Kirk, farmer, Grimstone, was fined 30*s.*, including costs, for laying poisoned grain. Defendant pleaded ignorance.

Messrs. Knott Bros., Blackburn Road, and Waller & Riley, Ltd., Bradshawgate, were awarded first prizes in the window-dressing competition held at Bolton last week.

Wigan chemists are closing their establishments all day on Sundays from May 1, and at 7.30 P.M. on Monday, Tuesday, and Thursday; 9 P.M. on Friday; and 10.30 P.M. on Saturday from May 2.

On Tuesday a fire broke out on the premises of Messrs. Howards & Sons, Ltd., High Street, Stratford, a brick and timber store for chemicals being destroyed. The damage done is estimated at 500*l.*

Luton had Shopping Days on April 21, 22, 23, and 25. Several local chemists entered for the window-dressing competition, and Messrs. E. Hall & Sons gained a third prize for the display in the window of their shop in High Town Road.

Gerald Phillips, the sixteen-year-old son of Dr. R. W. Phillips, Bangor University College, was accidentally drowned in the Conway Estuary on April 27. Dr. Phillips is a Professor of Botany at the College and examiner in botany to the Pharmaceutical Society of Great Britain.

A fire at the pathological laboratory of the Essex County Hospital, on April 24, was extinguished by the nurses, under the direction of the matron, Miss Bannister, and the dispenser, Miss Cassie. The nurses undergo regular fire drill under Miss Cassie, and photographs of that lady and the drill in progress are given in the "Daily Mirror" for April 27.

The Lord Mayor of the City of London has arranged for a meeting to be held at the Mansion House, London, E.C., on May 10, in support of the fund for providing new chemical laboratories at the University College. The speakers will include Lord Rosebery, Sir Henry E. Roscoe, Lord Cromer, and Sir Felix Schuster, Treasurer of University College.

At the Stratford Police Court on April 23, James Wm. Mack (28) was fined 100*l.*, or in default to undergo six months' imprisonment, for harbouring and conveying 176½ oz. of uncustomed saccharin. Mr. A. W. Cope, a Customs and Excise inspector, said accused was the tool of sailors who brought the saccharin over from Rotterdam and got dock workers to dispose of it.

The Lancaster Chemists' Association were represented at the special meeting of the Lancaster Chamber of Trade on April 27 by Messrs. R. S. Angus, J. B. Shattock, A. Bate, and Gorst. It was resolved that for the Whitsuntide holidays shops should close on Whit Monday and in the afternoon of Whit Tuesday and Whit Wednesday. June 1 is to be observed as a general holiday.

At the inquiry held at Sutton Coldfield, on April 19, into the death of Mr. Francis Henry Bowes (45), chemist and druggist, the jury returned a verdict to the effect that death was due to syncope. Mr. Bowes was the manager of the Parade pharmacy of Mr. Nicholas le Dain. Mrs. Bowes deposed that deceased had suffered from rheumatism and piles, which he treated himself. He would never have a doctor called in. The Coroner, in his address to the jury, remarked "that he did not think there was a class of people so unmindful of their own good and welfare as doctors and chemists."

At Witham, on April 26, Walter Baker (29), horseman, was committed for trial to the Essex Assizes on a charge of attempting to murder his wife by administering strychnine. Prisoner stated that he kept some rat poisons in his medicine chest along with some horse medicines. Dr. J. C. Thresh deposed that a green bottle and a packet produced in court both contained strychnine, and also that the sediment from a cup of tea contained $\frac{1}{24}$th of a grain of strychnine, and that several grains must have been present in the cup of tea which accused's wife tasted.

A Drugless Hospital.

A meeting of the members of the Psycho-Therapeutic Society, the object of which is "the study, investigation, and practice of health reform, medical hypnotism, suggestive therapeutics, curative human radiations, and drugless healing, with due regard to diet, hygiene, and the observance of natural laws of health," was held at 34 Bloomsbury Square, W.C., on April 23, to inaugurate their new and larger headquarters at that address. Mr. George Spriggs, President, stated that during the nine years of the Society's existence it has successfully attended about 2,500 patients, and given 22,000 free treatments. Dr. Forbes Winslow said that more than two-thirds of every form of nervous or mental disease can be treated by psycho-therapeutics.

Proprietary Articles.

The annual meeting of the National Chamber of Trade will be held in the Town Hall, Bradford, on Saturday and Monday, May 28 and 30. Amongst the subjects to be discussed is the following motion by the Huddersfield Chamber of Trade:

"That this Chamber views with great disfavour and strongly condemns the recent newspaper articles dealing with the question of substitution in connection with the sale of proprietary articles by retail traders.

"It further considers that, if the manufacturers of proprietary articles of every kind would only protect the retail price of their goods so that the distributor was fairly remunerated for his services, other goods of a similar nature leaving a fair margin of profit would not be offered to the public when the advertised proprietary articles were asked for."

Bill of Exchange Case.

At Clerkenwell Police Court on April 21, Charles Phillips, a perfumer, was charged with forging and uttering a bill of exchange for 65*l.* 13*s.* Mr. Rowe, who prosecuted, said that the prisoner had done legitimate business and obtained advances on genuine bills drawn by Messrs. George Carr & Co., manufacturing chemists, Sheffield, but subsequently it was alleged he obtained advances on forged bills drawn in the name of the same firm. Mr. William Moody, proprietor of the Popham Drug Stores, Islington, said he had financed prisoner. He advanced money at 22½ per cent. on twenty-one bills amounting to 687*l.* 1*s.* 4*d.* By a certain date, however, the prisoner owed him 65*l.* 13*s.* 6*d.*, and he paid witness with the bills produced. Mr. George Carr, senior partner in George Carr & Co., said his firm had done business with the prisoner, who supplied them with perfume. The acceptances to the bills produced were forgeries. The accused was remanded.

Birmingham Notes.

Sir Thomas Barclay, Ph.C., and Alderman Clayton, Ph.C., were amongst the guests who attended the lord-mayoral luncheon to Sir George Reid on the occasion of his visit to Birmingham on Monday.

An inquest was held at the Victoria Courts, on April 25, into the circumstances of the death of Harry John Harper (15), who had been employed at the Alum Rock Road surgical-dressing mills of Messrs. Southall Brothers & Barclay, Ltd., to assist in looking after a machine for "blowing" the cotton wool previous to its being carded. While the machine was at rest Harper went into the exhaust box and brought out some cotton. Immediately after Mr. C. H. Preston, the engineer, observed a flame in the exhaust box, gave an alarm, and the fire was extinguished. Harper was found lying on the floor badly burned, and he died in the General Hospital on April 22. A verdict of accidental death was returned.

Leeds Notes.

The Leeds Chemists' Association are actively supporting the candidature of Mr. F. Pilkington Sargeant for the Pharmaceutical Council, and have appealed to all local chemists' associations to help in securing his return. Mr. Sargeant deals in his address with the indiscriminate granting of poison licences, the "Pharmacy" case, the "Minor" and reciprocity, and agri-horticultural preparations.

Last February Mrs. Charlotte Libo, a Glasgow lady, visited Leeds, and entered a solicitor's office, asking for advice as to whom she should leave her property. Much surprised, the solicitor after inquiry suggested he would much prefer she should give her own instructions, as there were many objects like the Leeds Infirmary which would be glad of assistance. Without any explanation, she directed her will to be made in favour of that institution. A few hours later she poisoned herself with laudanum, and died in the Leeds Infirmary. Probate has now been granted to Mr. Charles Lupton, the treasurer, whom she appointed as executor, and he has valued the estate at 465*l.* 1*s.* 1*d.*

The combine formed in 1907 amongst medicine and other glass-bottle manufacturers, with the object of running machinery in that industry, is leading the business into a grave crisis. At least a dozen firms in Leeds and neighbourhood have, we understand, been handed by their employés notice that they are going out on strike. There is every probability at the present of the men employed by the firms outside the combine being compelled to come out, by reason of the rate of wages of others in their own Union employed by the combine firms being greater. Great efforts have been made to induce individual firms to subscribe to the combine, but many Yorkshire firms, particularly those in a small way of business, have held aloof. [See also Sheffield Notes.]

Notts Notes.

The drug-trade in Nottingham has been very quiet of late. The long spell of fine weather gave a good start to the photographic season about Easter, but that does not get very brisk until Whitsuntide and summer holidays begin.

At a special meeting of the Southern Division Council held on Wednesday evening, Mr. A. Eberlin (of Waterall & Eberlin, chemists and opticians) was elected President of the Southern Division of the Nottingham Liberal Association.

At the annual general meeting of Boots' Athletic Club on Tuesday night it was stated that the Club had had a very good season, and that there are now exactly 400 members. There was a balance in hand of 64*l.* 4*s.*, and other assets valued at 82*l.* 2*s.* 11*d.* It was suggested that a photographic section should be added, and that the monthly Journal be again published.

The ambassadors of commerce in the drug-trade who live in Nottingham seem to be of a very brotherly nature, as is exemplified by the fact that in connection with the Commercial Travellers' Lodge of Freemasons (the Pinnc Lodge) the Junior Warden is Mr. G. J. R. Parke (British Drug Houses); Senior Deacon, Mr. W. S Matthews (Wyleys, Ltd.); and Steward, Mr. W. S Adamson (P., D. & Co.).

Sir Jesse and Lady Boot are taking a great interest i the local politics of Nottingham, as is shown by th unanimous election on Tuesday night of Sir Jesse Boo to the presidency of the Nottingham Liberal Associatio Lady Boot is doing work among the women, and ha formed a Women's Liberal League under the name o the "Marguerites." On Monday afternoon Sir Jesse Boo invited 800 men and boys of the Clifton mines to a sub stantial meal.

Sheffield Notes.

Some comment has been aroused here by the publicatio of the will of a late beneficiary of the Pharmaceutic Society's Benevolent Fund, who has left behind him a su well over a thousand pounds.

At the Police Court on April 27, Albert Edward Turn was charged with attempting to defraud Bovril, Lt Sheffield. It is alleged that the prisoner has been carryi on a long firm swindle. He traded as the Cresce Chemical Co., and stated that the Bovril was ordered f use in a tonic wine.

The dispute in the glass-bottle trade has resulted in t firms in the Mexborough district serving notices up

0 men in their employ. These firms are outside the ssociation of Glass Bottle Manufacturers, which was rmed in 1907 to regulate selling-prices. The Selling-price ssociation is the rival Association.

The premises of the Medical Supply Association, Holly rect, were broken into in the early hours of April 22, t nothing was taken. These and adjoining premises m to have an attraction for thieves. The previous ek-end the shutters of the Association's warehouse ndows were wrenched off, and last year a heavy loss was tained at the hands of shopbreakers.

Sale of Food and Drugs Acts.

he Greenwich analyst reports that one sample each of lyptus oil, glycerin, and camphorated oil, and two astor oil were examined last quarter and found to be ine.

his annual report the Medical Officer for the City ondon (Dr. Collingridge) states : "In regard to drugs, decrease of adulteration was from 3.5 in 1908 to 2. during the year under review."

he Warwickshire County analysts in their quarterly rt stated that of the drug-samples examined, one of t nitre was 35 per cent. deficient in ethyl nitrite, while ple of mercury ointment was 75 per cent. deficient in ury. The inspector reported that the ointment was hased at Coleshill. During the subsequent proceed- it was stated for the defence that the defendant misled by the name of the purchaser, since he a customer to whom he occasionally sold a diluted ury ointment, or otherwise the full strength would been supplied. The Magistrates ordered the de- nt to pay 2*l.* 18*s.* towards the cost of the prosecution.

e Bournemouth analyst (Mr. R. A. Cripps) in his l report for 1909 includes the following among the official samples examined : Cream of tartar 11, ar 10, fluid magnesia 8, almond oil 7, and cinnamon 7. of the cream of tartar samples were returned as rated as they contained 0.0026 to 0.0033 per cent. of and two also contained copper. Two other samples lassed as doubtful because they just exceeded the pre- d limits for lead and copper (0.002 per cent.). Three es of fluid magnesia were 47½, 11, and 7½ per cent. nt. The first one was condemned, and the others ed as of "poor quality." Three cinnamon samples ned more than 1 per cent. of ash—viz., 2.68, 2.95, 1 per cent., owing to the presence of sand. The last turned as adulterated. Another cinnamon sample ed about 5 per cent. of arrowroot. The 86 un- samples taken included : Drugs 14, olive oil 15, n 5, and herbs 2. These were all genuine except one of calomel tablets, which was 33⅓ per cent. deficient mel.

Football.

oast and present students of the School of Pharmacy, omsbury Square, London, W.C., met in friendly on the football field on April 23. The Old Boys' raised by Mr. W. H. Allen, was as follows : ; Allen and Northey; Gadsden, Stokoe, and ; Walmsley, Bell, White, Hewlett, and Ber- Smith. The "Square" was represented by ; Bennison and Whyte ; Honneyman, Higgins, and Warrick, Sadler, Hall, Trestrail, and Edginton. Mr. Nelson acted as referee. The Old Boys pressed the quiet start, but the younger brigade soon found et, and Harvey failed to save a header by Trestrail. e goals accrued in the first half, and after the the present students continued to have most of the iggins adding a second goal. A pleasant game thus a win for the present students by two goals to nil. partaken at the Kensington Hotel, and an informal provided by several past and present students, ed at 8 P.M., with Mr. Allen in the chair. Toasts eferee, Secretary, Square Football Club and Cap- d Old Boys were duly proposed and suitably d to, the proceedings terminating about 11 P.M.

The ports of kauri gum from New Zealand during 1909 d in value to 552,698*l.*, against 372,798*l.* in 1908.

Irish News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Brevities.

Mr. W. Thorp, B.Sc., Dublin, has been appointed analyst to the Limavady Union.

Mr. James Barry, Ph.C., has disposed of his business at Lismore to Mr. F. C. Guest, Ph.C. Mr. Barry is at present residing at Beechmount, Mallow. (Corrected note.)

Mr. Samuel Gibson, J.P., registered druggist, King Street, Belfast, was an exhibitor in the Dexter section at the Royal Dublin Society's Show at Ball's Bridge last week.

At Crumlin Petty Sessions on April 25, William John Wilson was fined 10*s.*, and costs, plus solicitor's allowance of 10*s.*, for using the title of veterinary surgeon without being qualified. Defendant produced a diploma from the "Ontario College of Surgeons."

In reference to the vitriol-throwing charge reported in this column last week (p. 598), it should be pointed out that Mr. Grimes was not the only person upon whom the vitriol was thrown—four or five other persons are stated to have been splashed with the acid.

The Local Government Board has written to the Cashel Guardians pointing out that the Guardians are liable under their contract for the return of all drug empties within six months, notwithstanding any clause in the advertisement. The Clerk said that although the Guardians are liable they can make the doctors responsible.

A new Sheep-dipping Order applicable to the whole of Ireland comes into force on May 2. The Order provides that in the dipping area there shall be in each year two prescribed dipping periods. The first, referred to as "the summer dipping period," is to commence on June 15 and terminate on August 31. The "autumn dipping period" is to commence on September 1 and terminate on November 15.

A case is being heard in the Chancery Division, Dublin, in which a number of South of Ireland aërated-water manufacturers seek to restrain Messrs. John Dale & Co., Cork, from selling aërated waters at a lower price than that agreed to by the members of the local Manufacturers' Association. Defendants rely on their repudiation some time ago of the conditions of membership, as being against public policy and in restraint of trade.

Agricultural Chemicals.

The annual report of the Department of Agriculture states that during 1909 367 samples of copper sulphate and 379 of sodium carbonate were examined. The copper sulphate was without exception up to the high standard of purity required for spraying purposes. In the case of the sodium-carbonate samples, several were found to be impure. Sodium nitrate was supplied in one instance, whilst in other cases sodium sulphate was the adulterant. The report states approvingly that the practice is growing for farmers to purchase their own materials for making up spraying mixtures in preference to purchasing proprietary articles.

Scots News.

When sending Newspapers containing Trade news to the Editor please mark the items.

Aberdeen.

The balance-sheet of the Northern Co-operative Co. for the half-year ending February 28 has just been issued. We append the yearly and half-yearly turnover and profit in the drug department since its inauguration, viz. :

		Turnover. £	s.	d.	Net Profit. £	s.	d.	
Year	... 1907 ...	1,402	18	3½	402	7	3½	(one drug shop)
,,	... 1908 ...	1,237	19	2½	322	0	6	(an extra shop part year)
,,	... 1909 ...	1,782	7	8½	309	18	2	(two shops)
Half-year	190[illegible] ...	1,071	12	6	248	3	3½	(two shops)
,,	191	1,292		½	182	1	7	(two shops)

From the net profit has to be paid dividend on purchase amount, viz. :—

				£	s.	d.		£	s.	d.
Year	1907 ...	Rate 3.1	on £1 =	216	5	9 ...	balance	186	1	6½
,,	1908 ...	,, 3.2	,, =	196	0	4 ...	,,	126	0	2
,,	1909 ...	,, 3.2	,, =	282	4	2 ...	,,	27	14	0
Half-year	1909 ...	,, 3.4	,, =	178	10	0 ...	,,	69	13	3½
,,	1910 ...	,, 3.6	,, =	226	2	11 ...	deficit	44	1	4

Interest on capital account at the rate of 5 per cent. per annum has to be paid to shareholders, amounting to 35*l.* 4*s.* 5½*d.* for the half-year, as also the share of general management expenses. There is an increase in stock during the past six months amounting to 116*l.* 1*s.* 11½*d.*, and on fittings 65*l.* 17*s.* 9½*d.*, in all 181*l.* 19*s.* 9*d.* The salary of the manager is 143*l.* per annum, while six assistants and errand-boys are paid *in toto* 314*l.* 18*s.* 8*d.* per annum.

Dundee and District.

Mr. James Anderson, of the Dundee Drug-stores, is continuing until April 30 his "Annual Easter Offer" of a bottle of perfume free to every purchaser of sundries to the amount of 2*s.* 6*d.*, the bonus being equal to a discount of 12½ per cent.

The Wednesday afternoon closing of chemists' shops in Broughty Ferry, which has been the custom for many years, has come to an abrupt end. Someone wanted medicine the other Wednesday, and, as no arrangement had been made for emergencies, complaint was made with the result stated.

Mr. A. M. Stewart, F.C.S., chemist, Penang, presented a cup to the local rifle-shooting club, and at the competition on March 28 won it himself with a score of 33 at a Bisley target at 500 yards. Mr. Stewart also stood fifth for the Donegal bronze badge. He is a native of Dundee, and served his apprenticeship there.

Edinburgh.

Messrs. Gibson & Co., chemists, South Clerk Street, will shortly open a new pharmacy near Haymarket.

Another chemist's shop has been closed, that of Mr. Arthur C. Kirkpatrick, chemist and druggist, Easter Road.

It is reported that Boots Cash Chemists, Ltd., have purchased the various shops carried on by Inmans, Ltd., in Edinburgh. Mr. William Inman is to continue as manager.

Mr. P. R. Beattie, 110 Bruntsfield Place, has a red lamp of novel design, placed so that the light falls on a plate inscribed with the address where urgently-required medicines may be obtained after hours.

Glasgow and the West.

The pharmacy of Mr. J. Park, chemist and druggist, 167 Main Street, Bridgeton, is to be closed shortly.

Mr. O'Brien, at present with Messrs. Thomas Spears & Co., has been appointed manager of one of the pharmacies recently bought by Mr. Mitchell in Springburn.

Mr. W. C. Anderson, who was recently elected Chairman of the Independent Labour Party, was a few years ago an assistant with the late John McMillan, chemist, St. George's Cross, Glasgow.

French News.

(From the "C. & D." Correspondent.)

Medicine and Pharmacy on the Stage.—Matinées of classical plays, accompanied by lectures by eminent literary men, are a special feature of the Odéon Theatre. On Thursday of last week the piece was Molière's "Malade Imaginaire," and Dr. Doyen discoursed, with his usual fluent capability, on the medical and pharmaceutical arts in the reign of Louis XIV.

Obituary.—The death occurred a few days ago, at Saint Julien, of M. César Duval, a prominent Senator of the French Parliament, who was formerly a pharmacist. He has invariably been a loyal and consistent supporter of all the leading movements connected with pharmacy during his long political and parliamentary career, while the prestige of his presence has been appreciated at numerous pharmaceutical gatherings. His enlightened influence will be missed in many quarters.

Pharmacist Legislators.—The French General Elections took place on Sunday, April 24, all over the country, and although a number of seats have to be ballotted fo again owing to the requisite number of votes not havin been obtained to secure election, forecasts of the con position of the new Chamber of Deputies have bee made. In the Parliament recently dissolved there we eleven pharmacists and fifty-two doctors or professors medicine and two veterinary surgeons. It is probab that these figures will be approximately maintained. Th pharmacist, like the doctor, is a leading man in sma towns and villages in France, and frequently possess political influence. But the legal element is the mo numerous in all French Parliaments.

South African News.

"The Chemist and Druggist" is regularly supplied by orde to all the members of the seven Societies and Associations Chemists in business in British South Africa.

Natal.

Personal.—Mr. Walter Marshall, Messrs. Piver's repr sentative, left Durban for Johannesburg by the mail tra on April 4.—Mr. Chandos W. Brydges, representing Messr S. Maw, Son & Sons and the Standard Tablet and Pill C arrived in Durban on April 1, and will probably rema there for about two months.

Rhodesia.

Personal.—Mr. William Burnett has left Messrs. Sma & Copley, of Bulawayo, after nine years' service, to ta over the management of Messrs. Wragg & Co.'s Gatoo branch during the absence of Mr. A. H. Phelps, w left on April 3 for a six-months' holiday. We und stand that Mr. Burnett intends to reside permanently the Gatooma district.—Mr. S. H. Hall has returned Gatooma from his holiday in Cape Colony. He is resum his duties as dispenser in the hospital.—Mr. Hutchins of Bloemfontein, who travelled north with Mr. Hall, taking over the management of Messrs. Smart, Wilkin Co.'s branch at Que Que, as Mr. Reed, who has been w the above firm for the past two years, is going home holiday.—Mr. A. Cole, of Gwelo, having been in indifferent health for some months past, has gone home to recuper Mr. T. H. Nimmo, of Messrs. Lennon, Ltd., Bulawayo, w have charge of the business during his absence. Mr. V. Day, formerly with Mr. J. Blatsoe, chemist, Richmo Surrey, is filling Mr. Nimmo's post.—Mr. R. W. Travis, the staff of Messrs. Smart & Copley, has made a very cre able appearance in Bulawayo first-class cricket during past season. He headed the batting averages in his club and was picked as a reserve for the Rhodesian te in their match against the M.C.C. at Bulawayo.

Orange River Colony.

Pharmaceutical Society.—A meeting was held Bloemfontein on March 24, when the following officers were elected for 1910-11: President, Mr. S. S. Hewitt; V President and Secretary, Mr. A. Taylor; Treasurer, Mr. McMurray; committee, Messrs. Fowlie, Hendry, Carr, Auld, and Reid. A special meeting of the Society was on March 31 to consider draft legislation, and it was dec to recommend the O.R.C. Ordinance with some alterations.

Proposed Conference.—A special meeting of O.R.C. Medical and Pharmacy Council was held March 29 in connection with the proposed conference, it was announced that the Governments of the Trans Cape Colony, and Natal had all given their approval medical conference, but up to then only the Trans Government had notified approval of a pharmaceu conference. It was decided to inform the O.R.C. Gov ment of the other Governments' action.

Transvaal.

Personal.—Mr. Reddick, representative in the Tran of Allen & Hanburys (Africa), Ltd., left Johannesbu on March 31 for a holiday in England. Mr. Reddick's is being covered by Mr. West from the Cape Town br —Mr. W. G. Lay, Pretoria Bridge Pharmacy, Joha burg, has also left on a visit to the Old Country.

Dutch and "Patent" Medicines.—The Governor of the ansvaal has, under Section 7 of the Medical, Dental, and armacy Amendment Ordinance, 1905, prescribed the icles named in the annexed schedule as preparations ich contain ingredients deemed to be poisons in such antities as to be dangerous to human life or health if used thout due precaution. He has also cancelled all previous s of "patent medicines" or "Dutch medicines" pre-ibed under the provisions of the section, and in future eral dealers may only sell the following articles if horised thereto by certificate issued by the Resident gistrate:

"Patent" or Proprietary Medicines.

hlorodyne.
ellows' Syrup (compound syrup of hypophosphites).
aston's Syrup (syrup of phosphates of iron, quinine, and chnine).
ay's Compound Essence of Linseed.
inslow's Soothing-syrup.
tkinson's Infants' Preservative.

Dutch Medicines.

oedstillende Drops.	Stuip Drops.
enauwdheid Drops.	Tandpijn Drops.
dress Drops.	Grauwe Vomitief.
ramp Drops.	Witte Vomitief.
raam Drops.	Helmonts Kruiden.
g Drops.	Paregoric.
jnstillende Drops.	Wonder Essens.

ny other patent, proprietary, or Dutch medicine for n an consumption not herein named which contains a poison ed in the third schedule to the Medical, Dental, and Phar-y Ordinance, 1904.

A the Dutch medicines were named in the 1906 list as p onous, which also named chlorodyne and Fellows' syp. The effect of the new regulation is that Easton's syp, Kay's essence, Winslow's syrup, and Atkinson's p rvative (not hitherto on the list) may now be sold by ge ral dealers in districts where there is no chemist if th have a magistrate's express authority.

Australasian News.

"e Chemist and Druggist" is regularly supplied by order to ll the members of eight Societies of Chemists in Australia nd New Zealand.

The Commonwealth.

Ecise-duty on Pure Alcohol.—Mr. T. I. Wallas has bee engaged for some months in obtaining signatures to a n norial to the Minister for Trade and Customs, asking for reduction of the Excise-duty on alcohol for industrial pu ses to one-half the present rate. Mr. Wallas has obt ed the signatures of nearly all the professors of science at t three Universities, Government analysts, and other aut rities, including the Presidents of the Pharmaceutical Soc ies and the Pharmacy Boards. Mr. Wallas states that it s proposed to establish a laboratory in Australia for e production of the finer chemicals used in medicine and ientific research, but it was found that the cost of alco l seriously hindered possible development.

C toms Decisions.—Advertising leaflets and pamphlets enc ed with the goods in an outside covering, such as env pe, carton, etc., are to be admitted free if the goods are ble to a specific rate or are exempted from duty. If subj t to duty *ad valorem* the value of the leaflets is to be l uded in the value for duty of contents. When loos packed with goods in an outside package, and num ring more than one to each such package, the duty is to 35 per cent., or 6*d.* per lb., whichever is the higher. On ncentrated fruit syrups, as, for example, Consol bran strawberry, non-alcoholic, manufactured by the Brit Automatic Aerators, Ltd., London, the duty is to b charged as a concentration on the basis of 1 gal. equa 6 gals. of fresh strawberry fruit juice. "Laitprots," a mi casein, rendered readily soluble by treatment with an al li and used principally as a size and mucilage, is to be duti e at 30 per cent. general tariff, 25 per cent. under the ited Kingdom preferential tariff. Spongio piline, a sur cal dressing, is to be admitted free. These Customs tariff decisions give advance information on new lines: "Burmol," for instance, is a sodium hydrosulphite containing only a trace of zinc; "Westron" is a registered trade-name of tetrachloride of ethane, used as a solvent; "Westrosol" is the name for trichloride of ethylene, also used as a solvent; "Neutrex" is a refined cocoanut stearine, having approximately the same melting point as cocoa-butter; "Plastikum," a substance for plastic writing and painting with Primus writing-apparatus, consists essentially of zinc oxide along with a dextrinous preparation in the form of a dry powder. It is used for lettering on glass, mixed with water before use.

Canadian News.

(From the "C. & D." Correspondent.)

Listerine.—The Lambert Pharmacal Co., St. Louis, Missouri, has commenced an action against J. Palmer & Sons, Ltd., Montreal, in the Superior Court, Montreal. The plaintiffs claim that they are owners of the trade-mark "Listerine," used on dental preparations, and this, they allege, has been infringed by the sale of "Listerated Tooth-powder" by the defendants. The damages claimed are $10,000.

British Columbia.—At a meeting of the B. C. Pharmaceutical Association held at Victoria, a committee was appointed to revise the list of Canadian Associations and Societies, with which reciprocal arrangements exist, these being suspended pending the report of the committee. The names of Messrs. J. Cochrane, F. C. Stearman, and G. H. Cameron were submitted to the Lieutenant-Governor in Council as examiners in dispensing, materia medica and botany, and chemistry and pharmacy for the ensuing year.

Mr. R. H. D. Benn, F.C.S., died recently in the Royal Victoria Hospital, Montreal, after an illness extending from last October. He was born in 1878, and served his apprenticeship with Mr. J. A. Harte, afterwards spending ten years in Dr. J. T. Donald's laboratory. In 1908 he organised a company to enter upon a wood-distillation industry, and was appointed managing director. A very fine plant was designed and built under his supervision at Barry's Bay to deal with the stump wood of the extensive red pine areas of the southern part of New Ontario. Just as he had overcome the difficulties incidental to any new manufacturing enterprise, and his plant was beginning to run smoothly and satisfactorily, he was struck down by the illness which has now proved fatal.

Newfoundland.—A meeting of pharmacists was recently held at St. John's to take steps to promote the passing of a Pharmacy Act by the legislature of the colony. The following committee was entrusted with the duty of drafting a Bill: Messrs. T. M. McNeil, A. W. Kennedy, J. Channing, R. G. MacDonald, J. Curtain, W. H. Butt, D. G. Fraser, T. Cavanagh, H. C. Miller, and G. J. Brockelhurst.

J. W. Baker & Co., Wholesale Druggists, St. Paul's, Bristol.—The creditors of this firm were called together recently, when a statement of affairs was presented showing liabilities of 3,161*l.* 8*s.* 7*d.*, made up as follows: Trade creditors, 1,956*l.* 17*s.* 6*d.*; cash claims, 758*l.*; partly secured creditors, 434*l.* 18*s.* 2*d.*; less value of securities, 20*l.*, 414*l.* 18*s.* 2*d.*; and preference claims for rent, rates, taxes, wages, etc., payable in full, 31*l.* 12*s.* 11*d.* The assets were estimated to produce 1,233*l.* 7*s.* 9*d.*, the estate thus showing a deficiency of 1,928*l.* 0*s.* 10*d.* The assets consisted of stock-in-trade at cost 829*l.* 18*s.* 9*d.*, estimated at 300*l.*; book debts 1,380*l.* 6*s.* 7*d.*, expected to produce 900*l.* 6*s.* 7*d.*; cash in hand, 18*l.* 1*s.* 2*d.*; fixtures, fittings, etc., 55*l.* 14*s.* 9*d.*, valued at 5*l.*; and office furniture and stationery, 10*l.* The debtors' solicitors stated that they were not at present in a position which would enable them to make a definite offer to the creditors. The debtors were, however, prepared to meet the wishes of the creditors, and were willing to execute a deed of assignment or file their petition in bankruptcy. It was said that the debtors' friends might come forward and make an offer of a composition of 6*s.* 8*d.* in the pound, payable in two months. The meeting eventually passed a resolution agreeing to accept such a composition.

Legal Reports.

Trade Law.

Use of Professional Designation.—The Society of Architects sought to prevent one Kendrick, a builder and architect, using the designation "M.S.A.," he not being a member of the Society, which was incorporated under the Companies Act in 1893. The case came before Mr. Justice Joyce on April 22, and he refused the application for an injunction. Cases which the plaintiffs relied upon were in connection with chartered bodies. This, said his Lordship, was the case of a private joint-stock company, which for payment purported to give people the right to use a certain combination of mystic letters the meaning of which, his Lordship ventured to say, nobody in the court knew, except the counsel for the plaintiffs.

The Word "Royal" in Trade-marks.—Mr. Justice Swinfen Eady decided on April 27 an appeal by the Carron Co. against a decision of the Registrar of Trade-marks refusing to register a trade-mark containing the word "Royal." The company is incorporated by Royal Charter granted in the eighteenth century, and desired to register a mark (already registered) with additional words to the effect that it is incorporated by Royal Charter. The Registrar refused under Rule 12, which contains the words: "The word Royal or any other words, letters, or devices calculated to lead persons to think that the applicant has Royal patronage or authorisation may not appear on trade-marks the registration of which is applied for." Although his Lordship was not satisfied that the rule is limited to cases where such description would be erroneous, he sustained the Registrar's decision.

A Carboy Case.—In the King's Bench Division on April 26, the Lord Chief Justice, sitting without a jury, heard the case of Burdin & Co. *v.* the Fruit Juice Co. The plaintiffs are carboy-manufacturers, of Knottingley, Yorkshire, and the action was brought on a cheque for 330*l.* sent by defendants, the payment of which was subsequently stopped. The onus of proof being upon the defendants, Mr. McCall, K.C., opened the case. He stated that the cheque in question was sent to the plaintiffs as payment for goods sold and delivered—viz., a quantity of carboys. The defence was that the consideration had failed in that the goods for which the cheque was paid were not according to order, and did not comply with the contract. The goods were 2,000 carboys. Evidence was given for the defence. Mr. Leslie Scott, for plaintiffs, submitted that the purchasers of the carboys were bound to inspect the goods on delivery at the dock in London, and if they failed to examine them and reject them then, if necessary, they could not reject them afterwards, having accepted delivery. No notice was given to the plaintiffs that patent stoppers would be used, and the whole difficulty arose in consequence of the failure of the defendants to notify plaintiffs of that fact. His Lordship has reserved judgment.

Merchandise Marks Act, 1887.

"Finest Olive Oil."

Further hearing of the prosecution of the London Produce Brokers' Co., Ltd., Great St Helen's, E.C., at the instance of the County Council of the West Riding of Yorkshire, for a contravention of Section 2 of the Merchandise Marks Act (reported in the *C. & D.*, April 23, p. 606), was resumed at the Justices' Room, the Guildhall, London, on April 22. The summons charged the defendants with selling oil to which a false trade description was attached—viz., olive oil. At the former hearing, on April 19, Mr. Bodkin, counsel for the defendants, intimated to Alderman Sir William Dunn that his clients had elected to be tried by jury. The facts alleged were sufficiently set forth last week.

At the outset of the hearing on April 22, Mr. Avory informed the Alderman that it did not occur to him on the former occasion that a limited company could not be indicted. The defendant company having elected to be tried by jury could not appear except in the High Court. That was a difficulty which must be got over, and he therefore asked that Sir William should immediately issue summonses against one of the directors and the salesman who had some particular connection with the particular contract, so that he would have the individuals before him and they might be sent to trial in the ordinary way.

Mr. Waltons (of Messrs. Waltons & Co., solicitors for the defendants) requested that, in the absence of Mr. Bodkin, this application should stand over for a little while. He did not know why Mr. Avory should not ave made the application on the occasion of the pre bus hearing.

Sir William Dunn asked if the difficulty had not en anticipated when the case was last before the Court.

Mr. Avory replied that he overlooked the fact tha he defendants were a limited liability company. *Humanum est errare*, he added.

It was agreed that the application should stand er pending Mr. Bodkin's appearance, and that the evi ce should in the meanwhile be proceeded with on the u er-standing that it should be read over to the witness in Mr. Bodkin's hearing, and that the right of ss-examination by him should be reserved.

Daniel Piper, warehouseman in the employ of Mrs. Shaw, Ltd., Huddersfield, was then called. Examined by Mr. Canton, junior counsel for the West Riding County Council, he produced the receiving book of his firm, and showed from it that on October 19, 1909, they received from Messrs. Bleasdale, York, three hampers. One of the items on the invoice referring to these was "5-gallon tin olive oil." The label on the tin sent indicated that it contained olive oil. His firm purchased olive oil from no other firm but Bleasdale, and the oil supplied to Mr. Dyson, grocer, Blackley, was taken from that particular tin. During the time the oil was in his firm's possession it was not tampered with in any way, and remained in the same condition as it was when it reached them from Messrs. Bleasdale. His firm had no arachis oil in their possession.

Mr. Arthur Humphreys, managing director of Bleasdale, Ltd., York, was next called. Questioned by Mr. Avory, he stated that on September 18 of last year he ordered one ton of olive oil from Mr. Leon Fraenkel, 7 and 8 Idol Lane, London. He produced the invoice, dated September 20, received with the oil. At the head of this were the words "Warranty: We guarantee all goods on this invoice marked 'B.P.' to answer the requirements of the 'B.P., 1898.'" The invoice was signed by Mr. Fraenkel. The entry for the olive oil was, "One ton olive oil: Guaranteed pure and genuine." The numbers at the bottom of the invoice related to the barrels containing the oil, and were "2108 to 2113 inclusive." These barrels came to his firm. According to the practice followed by his firm, samples were taken from the barrels and submitted to their analytical chemist. A sample was taken from each, and the whole mixed. He had a knowledge of the requirements of the B.P. as to olive oil, and there is no test at all prescribed by the B.P. for arachis-nut oil. Witness identified the tin in which the oil supplied by his firm to Messrs. Shaw, Huddersfield, was sent, and also the label attached to it, and added that the oil was taken from one of the barrels sent to him by Mr. Fraenkel. At that time his firm had no arachis-nut oil on their premises and the olive oil sent to Messrs. Shaw was in the same condition as that in which they had received it from Mr. Fraenkel. As one having had thirty years' experience in the trade, he emphatically said that an article containing 20 per cent. of olive and 80 per cent. of arachis oil could not be called "olive oil"—nor could anything containing 50 per cent., or even 25 per cent., of arachis oil be so described.

Mr. Walter Puckering, receiving warehouseman in the employ of Messrs. Bleasdale, spoke to having received six barrels of olive oil from Mr. Fraenkel on September 22. He checked the barrels with the invoice, and then placed them in the oil warehouse. Samples were there drawn by a warehouseman, Shepherd, and submitted by him to Mr. Atkinson, the firm's chemist. The barrels left him in the same condition as that in which they had been received.

Sir William Dunn: Do you deal in or have you any arachide oil in your stock?

Witness: We have.

Sir William Dunn: From where do you get it?

Witness: Do you mean from what part of the country does it come?

Sir William Dunn: Does it come from Mr. Leon Fraenkel?

Witness: No, we do not get it from him. We get it from some other brokers.

Mr. Humphreys (recalled) was questioned by Mr. Avory

o his firm having arachis oil in their premises. He ed that they always had it in stock, but they had r, on any occasion, purchased any from Mr. Fraenkel. was not aware of the particular purposes for which this ight be used. Each chemist might use it for his own ose.

illiam R. Shepherd, another warehouseman in the em- of Messrs. Bleasdale, deposed to having taken samples each of the six barrels consigned to his employers, having mixed them, sent them on to Mr. Atkinson, firm's chemist. He personally filled the 5-gal. tin the oil sent to Messrs. Shaw, and could swear that il was in the same condition as that in which it was ved. The tin was filled from one of the barrels ered by Mr. Fraenkel.

e Court adjourned for luncheon. On the sitting being ed, Mr. Bodkin was present, and Mr. Avory asked lderman to grant summonses against Mr. Gallon and Williams, representing the London Produce Brokers' The case against Mr. Williams was that he was the n who, with Mr. Gallon, actually negotiated the con- for the sale of the oil to Mr. Fraenkel; Mr. Gallon, a or of the company, being also present on the occasion. Bodkin raised no objection. Both gentlemen were rt, and he pointed out that, supposing Mr. Gallon Ir. Williams did not elect to go for trial, the two could not proceed contemporaneously. He desired w what course was proposed to be taken in regard o company in view of the issuing of the new nses.

Avory replied that what he proposed was to adjourn mmons against the company *sine die* until he d what proceedings should be taken in their case.

Bodkin submitted that this was an extraordinary to pursue. The proceedings against the company either be proceeded with or withdrawn. The case them had been partly before the Court, and must interrupted by any other proceedings.

Avory replied that he would do whichever Mr. preferred. He would either proceed with the case the company or ask for an adjournment. In reply lerk, he said many companies had been committed l, and the natural result was that they had had to in the High Court.

further argument on legal points,

illiam granted Mr. Avory's application, describing easonable one. He granted the summonses against llon and Mr. Williams, making them returnable 5 at twelve o'clock.

Bodkin intimated that he preferred that the case be tried by the Alderman.

Humphreys, recalled, was then cross-examined by lkin, after a note of his evidence had been read him. He stated that he had had dealings with enkel for twelve months. There were superior of olive oil known as "cream extra." This was erm. The word "sublime" was also a trade term to the same article. "Superfine" was another Cream extra" was the term applied to the better oils used for edible purposes; "sublime" and e" were descriptions given to oils of not such a racter which were used for pharmaceutical pur- anufacturing liniments and so on. He did not y care for these for table purposes, as they were ong and full flavoured. Asked why he had the stion analysed, seeing that it was bought under tee, Mr. Humphreys said that his firm always s submitted to analysis for confirmatory purposes. sis showed the oil answered the requirements of in so far as it answered the cottonseed-oil test. r free acid, it showed 1.84 per cent. He had viously known of arachide-nut oil being used as ant of olive oil. There was a test for arachide separation of the arachidic acid, but it was a rocess, and he did not know it himself. It had vogue for some years.—Re-examined by Mr. tness stated that in September or October of last d no reason to suspect an admixture of arachis oil live oil he was buying. The refined nut-oil was expensive as the cheaper grades of olive oil. Last year there was a failure of the olive crop, and the consequence was that the price of olive oil went up something like 30 per cent. The terms "cream extra," "sublime," "superfine," and so on referred to different qualities, and not to adulteration with arachis oil. No matter the quality, the term "olive oil" implied that the oil was expressed from the olive. There were other qualities called "virgin" and "extra virgin." There was a difference between the price of the two of about 3*d*. per gallon.

Mr. Bodkin (to Mr. Humphreys): Did the effect of the crop cause some financial difficulties in the producers' trade?—Mr. Humphreys: I am not aware of that.—In reply to further questions by Mr. Bodkin, Mr. Humphreys said he had heard that olive oil was altered when it was put into old barrels which had been used for cottonseed-oil. He agreed that there would be certain traces of cottonseed oil in olive oil sent in this way. At the same time, he was not aware that in cases where olive oil was exported in cottonseed-oil barrels the French authorities would not allow it to be called olive oil.

Mr. Frederick W. Richardson, F.I.C., public analyst to the County Council of the West Riding of Yorkshire, was then examined. In reply to Mr. Avory he stated that he had a sample submitted to him by Mr. Bell, inspector to the West Riding County Council, and on analysis found it to contain not more than 20 parts of olive oil and not less than 80 parts of arachide-nut oil. The sample could not rightly be called olive oil, as the correct definition of olive oil was oil expressed from the ripe fruit of the European olive. Arachis or arachide nut oil, on the other hand, was oil expressed from earth-nuts. There was no test prescribed by the B.P. for the presence of arachis oil in olive oil, the cottonseed-oil test being the only one. On page xiv of the preface to the B.P., however, there was a special notice that "the appended list of tests is not exhaustive, having only been constructed to meet official requirements." On March 18 he received from Mr. Bell, solicitor, a further sample (No. 1299). This he analysed and found to contain at least 60 per cent. of arachis oil and not more than 40 per cent. of olive oil.

Mr. Avory explained to Sir William Dunn that this analysis referred to the sample submitted to Mr. Fraenkel.

Cross-examined by Mr. Bodkin, Mr. Richardson stated that about three years ago he experimented on arachide-nut oil for his own benefit.

Re-examined by Mr. Avory: Having regard to the limited scope of your operation, is it possible that the sample numbered 1299 may have come from the same bulk as the sample sent in by Mr. Bell, the County Council inspector?—Mr. Richardson: There is some possibility, because the first sample was very small. I had not a sufficient quantity to enable me to repeat the analysis very minutely, as I had in the case of sample No. 1299.

Mr. Puckering was then recalled and, cross-examined by Mr. Bodkin, could not remember whether the barrels received by Messrs. Bleasdale were old ones or not.

Wm. Robert Shepherd, who was also cross-examined by Mr. Bodkin, said he should not describe the barrels as old, because they were pretty clean and good-looking. It was seldom his employers purchased arachis oil, because it was so seldom in demand.

John Rea Heward, clerk in the ledger office of the London Port Authority, submitted the bill of lading for thirty-seven barrels of oil consigned by the steamship *Kama Maru* to the London Produce Brokers' Co., from Messrs. Ginieis. The bill of lading contained the following description of the barrels: "B. P. & C. S.O. 2102 to 2138.—37, huile comestible." Witness also produced the delivery note received by Mr. Fraenkel from the London Produce Brokers' Co., together with the delivery note sent by him for the delivery of six barrels to Messrs. Bleasdale.

Albert Henry Lee, foreman at the London Dock, spoke to the thirty-seven barrels consigned to the London Produce Brokers' Co. being under his charge, and to the documents to which they related having passed through his hands.

Mr. Avory: Had the oil in these barrels been tampered with or mixed with other oil during the time they were at the dock?

Witness: Like Potiphar's wife, the London Port Authority is above suspicion. (Laughter.)

Mr. Bodkin: Potiphar's wife was not above suspicion. (Loud laughter.) You mean Cæsar's wife.

Mr. Avory (to witness): You seem more mixed than the oil was. (Renewed laughter.)

Witness: May I correct myself, then, and say it was Cæsar's wife? (Roars of laughter.) Proceeding, he gave details of how he had carried out instructions received from Mr. Fraenkel for the re-marking of the barrels. Cross-questioned by Mr. Bodkin, witness said barrels of all ages were received at the dock. He was aware that cottonseed-oil barrels were used for shipping olive oil.—Mr. Bodkin: Is the olive oil that comes in cottonseed-oil barrels always marked "S.O."?—Witness: Always! No, sir. The various importers have their own marks.

The case was again adjourned till Thursday, May 5.

Pharmacy Acts.

A Doctor's Assistant.

At the Sheriff Court, Edinburgh, on April 26, Robert Alexander Gunn, assistant in the chemist's shop of his father, Dr. Alexander Gunn, 3 Nicolson Square, was charged before Sheriff Orr with having on February 26 supplied to a messenger of the Pharmaceutical Society quantities of laudanum and red-precipitate ointment. George B. Gunn, brother of the respondent, was also charged with selling laudanum and red-precipitate ointment on March 19, they not being registered chemists. Mr. Peter Morison, S.S.C., prosecuted on behalf of the Society, and Mr. W. J. Graham, S.S.C., appeared for the respondents. Both the accused pleaded not guilty. This is the first prosecution that has taken place in Scotland since the Summary Procedure Act form of complaint has been simplified, and Sheriff Orr asked Mr. Graham if he did not intend to call in question the relevancy of the complaint. Mr. Graham replied, "No"; he intended to accept it. It was indicated that in the case of Robert the defence would be an alibi. Sheriff Orr said an alibi was a very good defence, but it would be rather dangerous if he did not establish it. The proof was fixed to take place on May 6, at half-past ten o'clock.

Sale of Food and Drugs Acts.

Camphorated Oil.

At New Mills (Derbyshire) Police Court on April 27, Joseph Edwards, Chapel Milton, was fined 20*s*., and costs, for selling camphorated oil which was deficient in camphor to the extent of 21.5 per cent. He said he sold the oil in good faith, believing it to be pure. He had no warranty, but had sent a copy of the analyst's report to the firm from whom he had purchased the oil, and they wrote in reply that they could not account for it.

Salicylic Acid in Wine.

At Dungiven Petty Sessions (co. Derry) last week, John McNicholl was summoned for selling ginger-wine containing 4.4 grains of salicylic acid per pint. The analyst's report stated that salicylic acid should not be taken except under medical advice, as it is a dangerous drug. Dr. O'Kane, Londonderry, a graduate of the London University, said 4.4 grains of salicylic acid per pint of ginger-wine would not be injurious. That quantity would require to be taken continuously to have an ill effect. From 10 to 30 grains is frequently administered to patients, and in serious cases every three hours. In order to have an injurious effect two quarts of the wine would require to be taken three times a day. Salicylic acid is used as a preservative in place of alcohol. If a man drank a quart of ginger-wine preserved with alcohol it would be more injurious than if he drank the same quantity preserved with salicylic acid. An analyst is no authority on the effect of drugs.—The case was dismissed without prejudice.

County Court Cases.

Property in Syphons.

At the Wrexham County Court last week, Messrs. Ellis & Son, mineral-water manufacturers, of Ruthin, brought a claim for 15*s*. 9*d*. against Patrick Flanagan, marine-store dealer, of 2 Hughes' Court, Yorke Street, Wrexham. Mr. Churton (Chester), who appeared for the plaintiffs, said the amount was small, but the principle involved was of great importance to the plaintiffs. Many years ago the firm sold their soda water in syphons. A charge was made for the bottles, but that practice had been discontinued. The syphons were the property of the firm, and the purchasers were not charged for them. Messrs. Ellis had, of course, a large number of bottles all over the country, and were consequently very much in the hands of their customers as to whether the syphons were returned. Messrs. Ellis received a communication from Messrs. Francis & Co., chemists, Wrexham, to the effect that a man had called upon them offering nine syphons for sale. Mr. Churton then read correspondence which passed between the firm and the defendant. In one letter defendant denied having any syphons belonging to the firm, but at the end of the letter said he had a number of them coming to him. Evidence was then given by Charles Thompson, bookkeeper, in the employ of Messrs. Ellis & Son; Mr. J. B. Francis, of Wrexham, and his brother, Mr. J. H. Francis.—Defendant then gave evidence for himself, after which his Honour said that defendant admitted that day that the syphons were given him, but he would not say by whom. At any rate, defendant had them in his possession. They were not the property of the people who gave them to him, and it was his duty, or the duty of the persons who had them, to account for them coming into their possession. It was practically dealing in stolen property. He would like it to be known that bottles with the name of the firm upon them were the property of that firm. There would be judgment for 15*s*. 9*d*., which would be reduced to 2*s*. if the syphons were handed over within twenty-four hours.

Gazette.

Partnerships Dissolved.

Hocking, F. A., and Butler, G. E., Store Street, London, W.C., chemists, under the style of Burden & Co.

Kyffin, J., and Loughborough, W. G., Gosport, physicians, etc., under the style of Drs. Kyffin & Loughborough.

Stark, T., and Birch, E. F., Euston Road, London, N., dealers in druggists' sundries, under the style of Thomas Reynolds & Co.

The Bankruptcy Acts, 1883 and 1890.

Adjudications.

Kirby, John Henry, Ongar, Essex, chemist.
Smith, Walter, Bedford, chemist.

The Brussels Exhibition.

On April 23 the King and Queen of the Belgians opened the Brussels Exhibition, which will not be finished for a month yet; but the British Courts were practically right when their

Majesties walked through last Saturday. This photograph, by Mr. T. Brewis, F.C.S., shows the British Courts, the royal party, and the spectators.

New Companies Registered.

The letters P.C. mean Private Company within the meaning of the Companies Act, 1907, and R.O., Registered Office.

The Dispensary (Penang), Ltd.—Registered in the Straits Settlements, with a capital of $65,000, in one dollar shares. The first managing director is A. Mackintosh Stewart, F.C.S.

Eduardo, Ltd. (P.C.).—Capital 20,000*l.* Objects: To take over the business of Eduardo et Cie, 34 Wilson Street, E.C., wine, spirit, and cigar merchants, chemists, druggists, etc. R.O., 2 Amen Corner, Paternoster Row, E.C.

Longbothams, Ltd. (P.C.).—Capital 500*l.*, in 1*l.* shares. Objects: To take over the business carried on at Malton, Yorks, as A. Longbotham, and to carry on the business of chemists, druggists, etc. The first directors are A. Longbotham, Mrs. B. Longbotham, and W. Harrison.

Celloline, Ltd. (P.C.).—Capital 150,000*l.* Objects: To carry on the business of manufacturers of celloline, acetyl cellulose, and any chemical compound or substance intended to be a non-flammable substitute for celluloid, xylonite, and the like, etc. R.O., Suffolk House, Cannon Street, E.C.

Berlins, Ltd. (P.C.).—Capital 1,000*l.* Objects: To take over the business of a drug-store carried on by J. Berlin at 1-2 Pier Plain, Gorleston. The first directors are J. Berlin, Mrs. A. Berlin, and H. Williment. R.O., 31 Regent Street, Great Yarmouth.

Koptica Syndicate, Ltd. (P.C.).—Capital 16,000*l.* Objects: To take over the business of the Koptica Co., to manufacture and deal in "Koptica" liniment and powder, to carry on the business of medicine-manufacturers, etc. The first directors are G. W. Roberts (V.S., Ludlow), H. W. F. Garland, and H. P. Maybury.

Company News.

Kunerol and Cococetta, Ltd.—In the Companies Winding-up Court on April 26, Mr. Justice Swinfen Eady heard the petition of John Barker & Co., Ltd., for the compulsory winding-up of this company. Mr. Whitmore Richards, for the petitioners, said they were judgment creditors for 1,676*l.* odd. They had received no notice of opposition to the petition. The company was insolvent. His Lordship: You may take the usual compulsory order.

R. White & Sons, Ltd.—By order of the High Court, April 6, the capital of this company is reduced to 636,000*l.*, divided into 82,000 ordinary shares of 3*l.* each, 180,000 preferred ordinary shares of 10*s.* each, and 60,000 preference shares of 5*l.* each. The whole of the shares have been issued, and the sum of 3*l.* has been and is to be deemed paid up on each of the said ordinary shares, the sum of 10*s.* has been and is to be deemed paid up on each of the said preferred ordinary shares, and the sum of 5*l.* has been and is to be deemed paid up on each of the said preference shares.

Francis & Co., Ltd., Army and Navy Buildings, Victoria Street, S.W.—Under the Companies Consolidation Act, 1908, a meeting of the creditors of this company was held last week at the offices of Messrs. Sands, Flinders & Reddall, 1 Moorgate Street, E.C., when Mr. Sands reported that the company had been formed in August 1909 with capital of 3,000*l.* to acquire the business carried on by Mr. H. F. Drake, Mr. C. A. G. Burgess, and Mr. G. H. Nixon (Francis & Co. and Nixon & Co.), veterinary chemists, drysalters, oil and colour merchants, and dealers in pharmaceutical, chemical, and other preparations (see *C. & D.*, 1909, II., 368). 3,000*l.* was to be paid for the business, 2,000*l.* in ordinary shares of 1*l.* and 1,000*l.* in deferred shares of 1*s.* each. The company took over all the assets and undertook to discharge all the liabilities, book-debts being taken over amounting to about 90*l.*, the liabilities equalling that amount. No fresh capital was brought into the concern. Creditors had been pressing freely, and a large number of judgments had been obtained against the company, until finally the directors considered that they could no longer carry on business, and they accordingly convened a meeting of the shareholders on March 31 last, when a resolution was passed for winding up the company voluntarily, with himself (Mr. Sands) as liquidator. The unsecured trade debts amounted to 715*l.*, and there was a claim for rent of 45*l.* and one of 53*l.* in respect of salaries. The ranking liabilities were about 762*l.* As against this, the book-debts amounted to 755*l.*, but might be taken as being worth 450*l.*, while stock, fixtures, utensils, etc., were worth about 80*l.* This would give a total of 530*l.* of net assets. There were no debentures. Both Mr. Burgess and Mr. Nixon had claims against the company, the one for 87*l.* and the other for 47*l.*, but these it was not intended to press. The agreement provided that Mr. Drake should be paid 3*l.* 10*s.* a week and Mr. Nixon 3*l.* 3*s.* a week, but neither had drawn their full salaries. Mr. Sands added that if the figures given were realised the estate ought to yield about 10*s.* in the pound to the creditors. After a brief discussion it was decided to confirm the liquidation, with Mr. Sands as liquidator. The following are creditors: Bowell, Hatfield & Co., Ltd., Birmingham (10*l.*); Andoire & Co. (10*l.*); Ashton & Parsons, Ltd., London (25*l.*); Anglo-Belge Glass Assurance (10*l.*); Baiss Bros. & Stevenson, Ltd. (18*l.*); Burroughs Wellcome & Co., London (12*l.*); H. J. Cooper & Co., London (10*l.*); Crosbie & Co., London (12*l.*); Crowe & Taylor (10*l.*); Dussek Bros. & Co., London (38*l.*); John Feave, London (17*l.*); Grimsdale & Sayter (32*l.*); Hines, Stroud & Co., Ltd., London (16*l.*); Morton & Burt, Ltd., London (10*l.*); Odol Chemical-works (10*l.*); B. Peacock & Sons, Castleford (12*l.*); Pilchers, Ltd., London (10*l.*); Robinson & Sons, Ltd., Chesterfield (40*l.*); Swinnertons, Hanley (15*l.*); Southall Bros. & Barclay, Ltd., Birmingham (19*l.*); J. Williamson & Son, Lancaster (26*l.*); Wood-carving Co., Ltd. (14*l.*); Wyleys, Ltd., Coventry (10*l.*); J. W. Ward & Co., Ltd., Halifax (17*l.*); G. H. Williamson & Sons, Ltd., Worcester (19*l.*); Elliott, Tombs & Co., London (19*l.*); Crowther & Goodman (15*l.*); Wright, Layman & Umney, Ltd., London (23*l.*); Yardley & Co., Ltd., London (23*l.*).

Births.

Eason.—At 81 Tudor Road, Cardiff, on April 25, the wife of S. B. Eason, pharmacist, of a daughter.

Miller.—At Buluwayo, on March 28, the wife of H. B. Miller, chemist, of a son.

Robinson.—At 75 Grove Road, Wanstead, Essex, on April 25, the wife of Richard A. Robinson, jun., Ph.C., of a daughter.

Marriages.

Gelling—Mudd.—At Sunnyside Church, Pretoria, on March 21, by the Rev. E. J. Tyser, Richard Wakefield Gelling, Ph.C., M.P.S. Transvaal, to Florence Alice Priscilla Mudd, of Pretoria, Transvaal.

Neal—Roberts.—At the English Presbyterian Church, Llandudno, on April 21, Joseph Lloyd Neal, chemist and druggist, manager of the Southport branch of Boots, Ltd., to Isabella, youngest daughter of Mrs. Samuel Roberts, Holly Bank, Llandudno.

Deaths.

Anderton.—On April 4, Mr. Samuel Anderton, chemist and druggist, 340 Bradford Street, Birmingham, aged forty.

Archdale.—At 301 Moston Lane, Moston, on April 23, Mr. James Archdale, manager for many years for Messrs. Hardman & Holden, Ltd., manufacturing chemists, Miles Platting, Manchester, aged sixty-eight.

Biggleston.—At "The Pines," Whitstable Road, Canterbury, on April 18, Mr. Edwin Radford Biggleston, chemist and druggist, aged sixty-four. Mr. Biggleston was a native of Canterbury, and served his apprenticeship at Margate. In 1871 he purchased the pharmacy of the late Mr. J. R. Hall at 11 Mercey Lane, Canterbury, which he conducted until his death.

Bowes.—At Sutton Coldfield, on April 16, Mr. Francis Henry Bowes, chemist and druggist, aged forty-five.

Cook.—At Toddington, on April 21, Mr. Joseph Cook, chemist and druggist. Mr. Cook had been in business at Chapel-en-le-Frith, Derbyshire, since 1852. He was a prominent Churchman in the locality.

Cross.—On March 24, Mr. Edward Cross, chemist and druggist, 11 High Street, Birmingham, aged seventy-five.

Dodd.—On April 20, Mr. William Henry Dodd, representative for Messrs. Wilkinson & Simpson, Ltd., manufacturing chemists, Newcastle-on-Tyne, aged forty-four.

Flood.—At Chudleigh, Devon, on April 27, Mr. William Wright Flood, chemist and druggist, formerly of W. W. Flood & Co., wholesale druggists, High Street, Borough, S.E., aged eighty-six. Mr. Flood retired eight years ago, when his business was acquired by Mr. W. Perkes Parry (Bartlett Hooper & Co.), by whom it has since been carried on. It is an old business, established about 1780. In 1826 it was carried on as Whittaker & Perkins, in 1830 as Whittaker & Hodge, in 1847 as Hodge & Horne, and in 1853 as H. Hodge & Co., to whom Mr. Flood was traveller. About 1875 he became a partner, and the trade-name was changed to Hodge, Flood & Co.; then in 1880 he was sole partner and assumed the description W. W. Flood & Co. In the Borough Mr. Flood was one of the most popular men, and held several municipal offices. He is survived by Mrs. Flood and a family of two sons (both chemists) and several daughters.

Lea.—At 39 Radnor Park Crescent, Folkestone, on April 19, Mr. John Lea, chemist and druggist, aged ninety. Mr. Lea was in business at 4 Harbour Street, Folkestone, for forty years, retiring about ten years ago.

Long.—At Bristol, on April 2, Mr. John Temlett Long, pharmaceutical chemist, aged seventy-five.

McHardy.—At Cullen, on April 5, Mr. William Norman McHardy, chemist and druggist, aged twenty-six.

Melling.—At 34 Southbank Road, Southport, on April 25, Elizabeth, daughter of Mr. J. D. Melling, aged two years.

Randall.—At Longfleet, Poole, on April 18, the widow of the late Mr. Thomas Randall, chemist and druggist, founder of Messrs. Randall & Sons, chemists, Wareham and Swanage.

Ross.—At Molong, N.S.W., on January 29, Andrew Ross, M.D. Dr. Ross was a botanist, and was interested in pharmacy. For at least twenty-five years he had been a subscriber to The Chemist and Druggist, and contributed to our columns. A letter from his pen on Australian honey was published in the *C. & D.*, September 11, 1909, p. 454.

Scammell.—At "Mornington," Thomas Street, Unley, South Australia, on March 11, Mr. Luther Scammell, aged eighty-four. Mr. Scammell was born at Warminster, Wiltshire, and began his career as a medical student. His health breaking down, he emigrated to Adelaide, where he landed in 1849. He decided to practise medicine at Burra, and on the way there—he was walking with his pack on his back—he met some men conveying to Adelaide a mate with a broken leg. Mr. Scammell there and then reduced the fracture and established a reputation even before he arrived at Burra. He did not stop long at Burra, but moved to Hindmarsh, and subsequently set up as a chemist at Adelaide. Next he joined in partnership Mr. F. H. Faulding, who was already in business, and under the style of F. H. Faulding & Co. the firm gradually acquired its wholesale character. Mr. Faulding died in 1868, leaving Mr. Scammell the sole proprietor. Two sons were trained for the business, and on New Year's Day, 1889, Mr. Scammell retired, formally handing over the business to Mr. W. J. Scammell and Mr. Luther R. Scammell. Mr. Scammell was always proud of the fact that his firm were the introducers of South Australian wine and olive oil, and started the first distillery for eucalyptus oil. He filled many public offices.

Thompson.—At Rochdale Infirmary, on April 24 (as the result of injuries received in a motor accident on March 29), Mr. Samuel Lees Thompson, chemist and druggist, Delph, near Oldham. Mr. Thompson passed the Minor examination in January 1906.

Urwick.—At Tavistock, Longlands Park Road, Sidcup, on April 9, Mr. William Walker Urwick, pharmaceutical chemist, aged eighty-four. Mr. Urwick was a member of the Council of the Pharmaceutical Society for two years, being elected Councillor in 1872. He was a native of Shropshire, and prior to his retirement was in business in St. George's Road, Pimlico, London, S.W.

Walker.—At 3 Eglinton Street, Saltcoats, on April 24, suddenly, Mr. James Walker, chemist and druggist. Mr. Walker passed the Minor examination in 1891, and had been in business at Saltcoats as a chemist and dentist for thir five years.

Wilkinson.—At Wesley Manse, Skegness, on April Mr. William Wilkinson, chemist and druggist, of Chu Street, Colne, aged seventy-two.

Personalities.

Notes for this section must not be in the nature of advertisement and they should be authenticated when sent to the Editor.

Mr. John Snowdon, chemist and druggist, Ya has been elected to the local Parish Council.

Mr. John Holt, pharmacist, Yarm, has been appoin Chairman of the Stokesley Rural District Council.

Councillor J. C. Pentney, 98 Queen's Road, Dalst spoke last week at Westminster City Hall on "Motor- Traffic."

Mr. W. S. Glyn-Jones is President of the Step Branch of the League of Young Liberals, who have j held their first meeting.

Dr. Arthur Newsholme, F.R.C.P., medical officer f the Local Government Board, has been nominated by King as a member of the General Medical Council.

Mr. Ernest Clague, younger son of Mr. T. Mal Clague, Ph.C., Newcastle-on-Tyne, has passed the Med Preliminary examination of the Edinburgh University.

Alderman H. Potter (Potter & Clarke, Artillery L E.C.) has been elected by the Stepney Borough Counci their representative on the Metropolitan Water Boar

Mr. D. Lloyd Howard (Howards & Sons, Ltd.) presid last week at a meeting of the Lay Helpers' Associa for the Walthamstow and Leyton Deanery at the Vict Room, Leyton.

Mr. John McKesson, jun., of Messrs. McKesson Robbins, New York, and Mrs. McKesson, who have on a motor trip on the Continent of Europe since Febru sailed for home on April 26.

A Marriage will shortly take place at Singapore betw Mr. H. M. Hodges, chemist, Ipoh, Perak, and Miss Je Monmouth Burt, of Singapore. Mr. Hodges was form assistant to Mr. W. H. Lomax, chemist, Darwen.

Bro. R. Colwill, chemist, East Dulwich, S.E., was installed as W.M. of the Selwyn Lodge 1901, at Fraser's Restaurant, on Thursday evening, April 21. Bro. H. Kelf, chemist, Bromley, Kent, was appointed one of officers of the Lodge.

Mr. J. F. L. Brunner, M.P. for Northwich, an director of Messrs. Brunner, Mond & Co., Ltd., has h rather sharp attack of influenza, and is reported to be seriously ill at his father's residence near Chertsey; we understand that he is making satisfactory progress, with rest his recovery is confidently anticipated.

Mr. Thomas Ridley, of Carlisle, one of the candid for the Pharmaceutical Council, was apprenticed to Younger, of Brampton, then was assistant in Liverpool years, and passed the Minor in 1878. He next wen Messrs. Brady & Martin, Newcastle, after which he joine partner the widow of Mr. Younger, and purchased business of T. Martlew, 9 English Street, Carlisle, tw years ago. (Corrected note.)

Mr. Harry London and Mrs. London, of Warrn bool, Victoria, arrived in London on April 23, and been staying at Horrex Hotel this week. Mr. Lo served his apprenticeship with Mr. William Corbett Bromsgrove, but has been in Australia nearly a qu of a century. He has recently disposed of his bus at Warrnambool to Mr. W. B. Dougall, formerly Auchterarder, and after a few months in the Old Co will return to Australia by way of Canada.

American Turpentine.—The exports of turpentine oil Savannah, the principal port of shipment, during amounted to 5,236,774 gals., against 6,535,839 gals. in and 5,189,182 gals. in 1907. The average value of turpe at Savannah in 1907 was 61¼c., 1908 41¼c., and 1909 50¼ c gal. The output of the present season (April 1909 to M 1910) is estimated at fully 25 per cent. less than the pre season.

Westminster Wisdom.

A Record of Parliamentary Progress.

The Finance Bill, 1909-10.

This measure passed through the House of Commons on Wednesday, and was read a first time in the House of Lords the same evening. The stages were completed on Thursday. The provisions of the Bill (which is to receive the Royal assent on April 29) are the same as last year (see *C. & D. Diary*, 1910), except that (1) a new sub-section has been added providing that licence duties on the new scale shall be paid from September 30 of last year; (2) it is also enacted that returns of income for the purposes of the super-tax must be made by July 31 next; and (3) a clause has been inserted compelling persons who have taken out motor-car licences this year to pay the additional licence duty as from July 1 next.

Duty on Motor Spirit.

The Chancellor of the Exchequer, in reply to Mr. Boyton, has stated that the net amount of duty received on motor spirit from June 1, 1909, to March 31, 1910, was 305,000*l.*, and of this amount 191,039*l.* was collected in the London area.

Motor Ambulances.

The Home Secretary has informed Mr. Hay Morgan, M.P., that hand stretchers have not been used by the Metropolitan Police for many years for the conveyance of injured persons to hospital, but wheeled litters of an approved pattern are so used. The London County Council last year obtained Parliamentary powers for the provision of motor ambulances, and he understands that this question is now engaging the attention of the Council.

Port of London Rates.

The President of the Board of Trade gave notice in the House of Commons on April 25 of the presentation of a Bill to confirm a provisional order made by the Board of Trade under the Port of London Act (1908), relating to the maximum port rates on goods which may be levied by the Port of London Authority.

The Coroners' Committee.

Mr. Churchill announced on Wednesday that he has now under his consideration the two reports made by the departmental committee on the law and practice in Coroners' Courts, but that he could not give any pledge as to when it would be possible to propose legislation to carry out the recommendations contained therein.

British Commerce Abroad.

The President of the Board of Trade informed Mr. H. Nield, in the House of Commons on April 25, that he was not prepared to admit that the organisation and machinery at the disposal of the Board of Trade for the promotion of British commerce were in any degree less effective for that purpose than the corresponding organisations of other countries. He desired to utilise to the full the co-operation and assistance of the Advisory Committee, but he did not think that the usefulness of the committee would be increased—on the contrary, it would probably be considerably diminished—if it were invested with executive powers.

Proposed Court of Adulteration.

Mr. Charles Bathurst has asked the Prime Minister if he would arrange with the Presidents of the Board of Agriculture and of the Local Government Board for the appointment of a committee of those two departments, as recommended by the late Sir Henry Campbell-Bannerman in May, 1906, to consider and report upon the best means of establishing a permanent court of reference, whose duty it shall be to investigate the various methods of adulteration (including the adulteration of animal feeding stuffs and fertilisers) which exist or may arise, and to advise as to the steps to be taken to protect effectually the public from the fraudulent sale to them of adulterated articles. Mr. Asquith, replying on April 25, said he did not think it necessary to set up a departmental committee to report upon this particular question—which, he might add, was not the question dealt with by Sir Henry Campbell-Bannerman. The actual appointment of a court of reference would need legislation, and might, he thought, be deferred pending the result of further experience of the working of the new Foods Department, which had been formed under the Local Government Board. As regarded the Board of Agriculture, he understood that the department had begun the collection of analyses, which is the necessary preliminary to the fixing of a standard.

The New Japanese Tariff.

A number of questions bearing upon the Japanese tariff were addressed to the Foreign Secretary and the President of the Board of Trade in the House of Commons on April 25. One of these, by Mr. Hamilton Benn, was for the purpose of ascertaining whether the attention of the Foreign Office had been directed to the systematic undervaluation of goods imported into Japan, whereby traders who refuse to lend themselves to this practice are seriously prejudiced. The hon. member also asked Sir Edward Grey whether in view of the prohibitive character of many of the new duties in the Japanese Customs Tariff, especially affecting Yorkshire and Lancashire goods, he would make representations in order to secure fair treatment for British goods. Mr. McKinnon Wood replied that the question had been brought to his notice principally in connection with the consumption tax on imported textiles, and H.M. Government some time ago invited the Japanese Government to consider whether they could not see their way to substitute specific consumption duties for duties on an *ad valorem* basis. At the time the Japanese Government were not prepared to adopt the suggestion, but they promised to consider it. In the new Japanese Customs Tariff it is proposed to replace in many cases the existing *ad valorem* by specific duties. He further stated that it is not possible to say at present what representations it may be ultimately found necessary to address to the Japanese Government, pending a consideration of the matter by the Board of Trade, who are in communication with the Chambers of Commerce on the subject, and will consult their Advisory Committee on Commercial Intelligence with regard to it when they learn the views of the Chambers.

Mr. H. Page Croft also asked the President of the Board of Trade whether, as Chairman of the Commercial Intelligence branch of his department, he had called for reports from the various Chambers of Commerce throughout the United Kingdom regarding the proposed changes in the new tariff, especially in regard to the two counties already mentioned, for the purpose of ascertaining the effect upon British trade and the nature of the representations which it was advisable should be made to the Japanese Government. The President was also asked whether he had received a copy of the new draft tariff, and whether he would publish it for the information of British exporters, whose trade is seriously threatened by the increased imposts.

Mr. Buxton replied that such reports were called for more than a month ago, and when received would be considered by the Advisory Committee of the Board of Trade. Mr. Buxton added that a translation of the draft of the Japanese Customs Tariff has been prepared by the Board of Trade, and will shortly be issued as a Parliamentary paper. The provisions of the new Japanese Tariff Bill have been communicated to Chambers of Commerce and other representative associations with a view to ascertaining the probable effect of the new proposals, if enacted, on British trade. When the replies are received they will be considered by the Board of Trade Advisory Committee on Commercial Intelligence.

He was an American Specialist.—"Look here, doctor," said the ex-patient, coming into the physician's office with a determined expression. "I've just had the *x*-rays turned on me, and I find that when you operated on me you left a pair of surgical scissors in me." "Bless me!" replied the specialist. "I had missed them. Thank you so much, my good man. I will add their cost to your bill."

Poison Licences.

(Poisons and Pharmacy Act, Sec. 2.)

Notices of Application.

Durham.—Chas. W. Colbeck, druggist and drysalter, 44 Bank, Barnard Castle.

Sussex.—Arthur F. Bannister, grocer, etc., Post Office, Newick.

Wrexham.—J. H. Antley, seedsman, Covent Garden, Henblas Street.

Yorkshire.—Charles D. Sellers, drug-vendor, Sherburn-in-Elmet (Yorks).

Yorks (North Riding).—Mr. Robert Campbell, grocer, Leyburn.

Applications Granted.

Clitheroe.—The Town Council on April 21 unanimously decided to issue a licence to Mr. John Ellis. The Licensing Committee expressed the opinion "that the reasonable requirements of the public in this neighbourhood with respect to the purchase of poisonous substances for use in horticulture were not satisfied." [The Watch Committee and Council were unanimous in refusing a licence to Mr. Ellis last year, when Mr. J. Harrison, chemist, Castle Street, said that the compounds in question could be obtained from five local chemists. The applicant then declared that he would continue to sell as manufacturer's agent.]

Radnorshire.—Martin Henry Hope, Newbridge-on-Wye.

Applications Refused.

London.—The Public Control Committee of the London County Council has refused an application by Benetfink & Co., 107-8 Cheapside, London, E.C.

Middlesex.—At the meeting of the County Council on Thursday, April 28, the General Purposes Committee reported on the application of Messrs. H. Robins and A. Beauchamp, seedsmen, 34 London Road, Twickenham, and Mr. B. Tew, horticultural sundriesman, Whetstone. The former application was opposed by Messrs. C. J. G. Bunker, A. Feather, and C. J. Palmer, pharmacists, Twickenham, and the latter by Messrs. A. W. Bromley, C. Moore, F. J. Sandberg, and Leverett & Fry, chemists, in business at North Finchley or Whetstone. The committee reported that Messrs. Robins & Beauchamp, who recently opened at the above address as seed and bulb sellers, were previously employés of Mr. Ernest Poupart, formerly in business a few doors away. Mr. Poupart's application was refused last July, on the ground that the reasonable requirements of the public in that neighbourhood were already satisfied. The present applicants desire a licence principally for the sale of "XL All" insecticide and fumigator. Fruit and vegetables are sold on the premises, but the applicants propose to keep the poisonous articles away from these. With respect to existing facilities, another seedsman three-quarters of a mile away holds a licence, and there are many chemists' shops at which horticultural poisons are stocked and sold in the near neighbourhood. Mr. Palmer exhibits prominently in his shop the following notice: "Poisons and other articles required in agriculture and horticulture may be had here at the lowest market prices." Mr. Tew desires a licence in respect of his nurseries. His application was refused in July last on the ground that the reasonable requirements of the public were satisfied in the neighbourhood of his business at 47 High Street, North Finchley. The applicant states that his nurseries are a mile away from any chemist and druggist where poisonous weed-killers can be obtained, and that it would be a convenience to residents in the district if the licence were granted. The applicant proposes to keep the poisons in a locked cupboard in an outhouse, where no fruit or other article of food is stored. The application is in respect of horticultural poisons only. Mr. A. W. Bromley is in business immediately opposite the nurseries. There are said to be eight other chemists in Finchley. Messrs. Moore and Sandberg attended the committee in June 1909, and expressed their readiness to meet the reasonable requirements of the public. It was agreed that the Council being of opinion that the reasonable requirements of the public in the neighbourhoods where the applicants carry on business are satisfied, do not grant the applications.

Windsor.—At the April meeting of the Town Council, Messrs. Brown & Son, ironmongers, applied for a poison-licence. The firm, in a letter, complained of being seriously prejudiced in business with gardeners through inability to vend horticultural poisons, especially as poisonous preparations could be obtained from a licensed firm of ironmongers. Five local chemists wrote objecting to the application, and also to the renewal of the licence issued last year, on the ground that the reasonable requirements of the district were already fully satisfied by pharmacists. Mr. Robert Wood, chemist and druggist, who attended the Council-meeting, stated that the public safety should be carefully considered before granting further facilities for the sale of poisonous substances. Mr. Goodford, in reference to the licence issued last year, said he considered that there had been a general misunderstanding as to the public needs not being satisfied. Nobody could deny that ample facilities did not already exist. The application was refused.

Postal Address:
C & D. INFORMATION DEPARTMENT 42 Cannon Street, London, E.C.
Telegraphic Address: "CHEMICUS LONDON."
Telephone No.: BANK 852 (two lines).

The object of this Department is to supply names and addresses of Manufacturers of, or Agents for, goods pertaining to the Chemical, Drug and Allied Trades. The "Buyers' Guide" in each issue of "The Chemist and Druggist" affords much information, but enquiries for anything not referred to therein may be addressed to this Department. Replies will be furnished immediately, or inserted in this section free of charge.

INFORMATION WANTED.

We would be obliged if any reader would reply by postcard or telephone to one or other of the subjoined enquiries.

152/65. Makers of "Spirocin," and London supply?

148/49 "Koh-i-Noor" feeder; who makes or supplies?

148/64. "Vade Mecum" dentifrice: who makes or sells?

147/50. Makers of "Kapp's Soap," or where obtainable?

149/40. London agents for Warren Capsule Co., of Detroit, U.S.A.

152/12. Makers of rubber bands in boxes of one gross; on lid of box is large "8."

147/43. Address of the actual manufacturer of William Lasson's Elixir for the Hair?

148/57. Makers or wholesalers of "Nurse Cherry" feeders (marked "H. & S.").

152/59. Actual manufacturers of "Comedone Expressors," British or Continental?

INFORMATION SUPPLIED.

During the past week we have answered enquiries regarding the following articles. The information will be repeated to any other enquirers who send to the Department a stamped and addressed envelope for the purpose.

Alberti's plaster models, maker and supply (147/25, 147/58, 147/69, and 148/8).
"Alexine," supply (145/61).
Alumina hydrate, supply in 100-ton quantities (143/68).
Barium peroxide, supply (149/43).
Crembas, makers (148/69).
"Dasco" metal-polish (148/56).
Edgar's croup lotion, makers (148/64).
"Electric Plaster," makers (148/59).
"Eumydrin," makers (148/60).
Gardner's corn-exterminator, makers (142/69).
Heald's distemper powder, supply and makers (144/71 and 149/40).
Heald's hepatic balls, makers (149/73).
Hong Kong, wholesalers (150/39).
Irish moss, wholesale supply (152/64).
"Ivy Leaf" corn silk, supply (148/6).
Marpman's scarlet-fever serum, supply (149/41).
Metallic stampers (151/11).
Oxley's essence of ginger, proprietor (148/64).
P.A.T.A., address, &c. (Spanish inquiry) (149/37).
Perfume sprays, makers and exporters (148/71).
Powder measuring machines, makers (147/49 and 150/17)
Rubber corks, makers (147/49).
Silico enamel for metal work (146/1).
"Simplex" chloride of ammonium inhaler, makers and supply (146/57).
Spirocin, makers (152/65).
"Tansy" royal tablets, makers and agents (148/10).
"Tasco" paint, makers (148/56).
Tin bottles (square), makers (6/13).
"Vestosol," maker (150/10).

A Chemist is Bemoaning the loss of a customer. A lady the other day, was in the shop, and had a prescription made up. "How much is it?" "Two shillings," replied the chemist. "Dear me! One and ninepence is all I have with me. Cannot you let me have it for that?" "Really, could not," said the compounder, "but you can pay the next time you are in." "Oh, but suppose I should die?" laughingly inquired the lady. "It would be a small loss," replied the chemist; but he saw by the injured look the customer wore as she crept out of the door that he had made a mistake somewhere, and it did not dawn upon him until too late.

Observations and Reflections.

By Xrayser II.

The Historical Survey

of the curriculum question and your editorial note on the same subject are both decidedly interesting, and just as "coming events cast their shadows before" they may be regarded as having been inspired by intelligent anticipation of what lies ahead in the near future. The educational position was very different in 1872, when Professor Attfield started his curriculum crusade, from what it is to-day. At that time the late W. E. Forster had just started in England, and Lord Advocate Young in Scotland, the great schemes of national education that laid the foundation of the Board-school system as we have it to-day. Looking back over these forty years, I am amazed at the changed conditions. The teaching of science in the great majority of secondary schools throughout the country, even in its most elementary form, was then unheard of, and the only attempt to reach young men after they had left school consisted in the efforts of the Science and Art Department of South Kensington, which for more than a quarter of a century did great service in directing and encouraging educational enthusiasts throughout the country. By their aid and by means of evening classes the torch was kept alive till the more responsible Education Department was ready to take up the work. How different is the state of matters to-day! In every little country town, and in every Board school, both boys and girls are taught theoretical and practical chemistry, physics, and mechanics, not to speak of physiology and the laws of health, while in the technical and secondary schools education is carried forward to a point whence entry on a university course is always possible, and is, in fact, the next step for the aspiring student. Obviously the changed conditions must be taken account of in framing the curriculum, and a great deal of the syllabus of instruction outlined in your article can now be replaced by departmental certificates, which may be secured by students in the scores of secondary schools up and down the country. There is another side to the picture.

The Elimination of the Druggist

from the profession of pharmacy is a process that has been going on for many years and will probably continue until the two classes are as distinct in England as they already are in Germany. It is a natural, and indeed an inevitable process, but, designedly or otherwise, it has been hastened by the policy of the Pharmaceutical Society. The compulsory curriculum will still further hasten it, for it will weed out hundreds of candidates for the higher status who will nevertheless find room for themselves as medicine vendors of a lower order. Many of them are, it is true, trading under the general name of grocers, but a continually increasing number boldly pose as chemists or druggists, or both. These are for the most part men who have had an eye to pharmacy proper, but have failed to qualify. They find that it is possible to supply all the ordinary wants of their public without qualification, and possibly they are right in believing that the cost and trouble of passing the examinations would not be repaid by any advantages they might thus gain. The attempt to capture the dispensing of prescriptions for pharmacists has failed—indeed, there is less dispensing in this sense now than there was half a century ago—and although there will always be room for a comparatively small class of true pharmacists they will be sharply distinguished from the ordinary trader in medicines. Just as the druggist emerged from the grocer, so is the pharmacist emerging from the druggist, and it would probably be wise to drop the latter title, which is too suggestive of the "drug-store." The distinction between "Pharmacist" and "Pharmaceutical Chemist," the former being granted to Minor men, the latter reserved for the Major class, would be quite as clear as that between the titles at present in use, which still puzzle K.C.s—not to mention Lord Chief Justices.

The Legal Decisions

reported last week have settled not a few disputed points, and in the two most important—the Edwards appeal and the dental appeal—it seems to me that the defendants had equity on their side. It is eminently satisfactory that the law proved also to be on their side, for any other result would in the Edwards case have led to an enormous amount of trade disturbance and dislocation among chemists without one atom of corresponding advantage. Similarly with the unregistered dentists, while the case was somewhat narrower, from one point of view I do not see why these men should not make the most of their qualifications, so long as they do not mislead the public by calling themselves dentists. If I am not mistaken, this decision, taken along with the recommendations published in the *C. & D.* of April 16, which are intended to prohibit unregistered men from giving chloroform or gas, will lead to a great development of extraction under local anæsthetics of the cocaine class. Since unqualified men can advertise painless extractions quite freely, we may expect to see still larger numbers using local anæsthetics, and herein lies a real danger. It may be quite true that millions of extractions have been performed without a fatality, but familiarity is apt to breed contempt, and some day a susceptible subject may get an overdose of local anæsthetic with the most dire results.

The Antecedents of a Lady

should be treated delicately, and still more so, surely, those of a goddess; and yet it seems that in Paris (see *C. & D.*, April 23, p. 599) the claim of Hygeia to divine origin is being denied with almost brutal directness, and we are bidden to regard her as merely "an allegorical figure" who has managed somehow or other to thrust herself into the family of the gods. An allegorical figure merely she may be in the Euston Road and on the medals of the Paris Academy of Medicine, but her "claim" to be the daughter of Asclepius appears to be as old as herself, and as well-established as most facts in the early history of such old families. At all events her origin is, according to Smith, as clear as that of her reputed father himself. In Homer Asclepius is no god, but simply "the blameless physician," whose two sons were serving as army doctors with the Greeks before Troy; to which Pindar adds that Zeus killed him for fear that through his skill men would escape death—a warning to those modern followers of his who would get rid altogether of mortal disease! He was married to Epione, and in addition to the sons already referred to had eight daughters, of whom Hygeia was one. What poets say, however, is not always evidence, and the fact remains that he was widely worshipped (probably long before Homer's time) as a god, and is believed to have been a survival of a serpent worship much older than the Greek theology. The later Orphic hymns represent Hygeia as his wife, but it was as his daughter that she was worshipped equally with him, and on as good grounds, first in the Peloponnesus and afterwards in Athens and throughout Greece. The worship of Athene Hygeia at Athens was, it is believed, merely the addition of the function of healing to the other qualities of the protectress of that city, and quite distinct from the worship of the daughter of Asclepius. The whole myth may be compared with that of the origin of the physicians of Myddfai (a really historical family for several generations), of whom, possibly, more anon.

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Editorial Articles.

Oleum Morrhuæ.

Cod-fisheries and Climatic Conditions.

Hydrobiological investigations promise to forecast with reasonable certainty the success or otherwise of the Norwegian cod-fisheries a year or even to some extent seven years in advance. An important contribution on "The Gulf Stream—and Sea Fisheries of Northern Europe," by Mr. James Johnstone, B.Sc., of the Liverpool University Fisheries Laboratories, appears in the current issue of "Science Progress," and deals with the strong evidence now available that the physical conditions of the sea affect the productiveness of marine fisheries. The optimum conditions of temperature and salinity restrict the distribution of fish. The periodicity of the Gulf Stream, or the annual sea-temperature wave itself, may enlarge or restrict a sea area with approximately uniform conditions as regards temperature and salinity, and concomitantly the distribution of fish. The spawning acts of some fishes appear to be favoured by certain such conditions, and the annual migrations are set up towards seas which possess the favourable circumstances. Thus cod is found all the year round in the Irish Sea, but the fish enter this sea in greater numbers in winter and early spring in order to reproduce in the relatively fresh cold water of the coastal banks and slopes. Strictly local movements of fish are caused in many cases by the relative abundance of suitable food. The Lofoten cod-fishery is given as probably the best example of a periodic sea-fishery, since its fluctuations are dependent on those of the Gulf Stream drift in northern latitudes, in whose centre the Lofoten Islands lie. There the fishing season starts usually in January and ends in April. The maximum catches are generally made in March, but these dates are subject to notable variations. The weekly statistics of the Norwegian fishery authorities concerning the catch of cod and the sea-temperature at Sognefjord, and air-temperature at Lofoten, are the basis of the following diagram, prepared by Helland-Hansen and Nansen, to

ow the associated variations in the productiveness of the nery and the intensity of the Gulf Stream drift during years 1902 to 1906 inclusive.

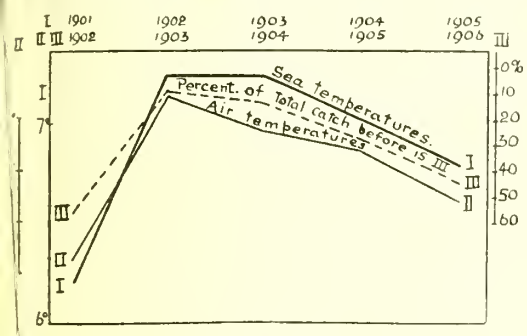


Fig. 1

e total catch for the various years (expressed as the pe ntage of the total number of fish in the season's fis g) is represented by the broken line (III.). Air-tem- pe ure (and accordingly surface sea-temperature) at Lo en fluctuated between 0° and 4° C., and is represented by e bottom line (II.). It varies similarly, but one year lat to the sea-temperature at Sognefjord (6° to 7.3° C.) giv by the top line (I.). The sea-temperatures denoted are cordingly for the year previous to the corresponding val s of catch and air-temperature. It will be seen that the aximum haul of 1902 dwindled to a minimum in 190 , and increased in the following years, while the air and ea temperatures bear an inverse relationship. The hig the temperature, the later in the year do the cod sho approach the fishing grounds—*i.e.*, a strong Gulf Stre corresponds to a late, and generally rather poor, fish . Conversely a weak Gulf Stream usually denotes an earl nd good season. Further, it is possible to predict the proximate date of the maximum fishery as well as the bable yield of the fishing since a high average sea- temp ature at Sognefjord in May corresponds to a high sea-t perature at Lofoten about a year later. These con- clusi s, which are based on observations by the Inter- natic l Hydrographical Investigations since 1901, find confi ation is a fairly close parallelism between the air- temp ature at Lofoten and the catch of cod recorded each seaso since 1880—the higher the air-temperature (the stron r the Gulf Stream flow) the lower the proportion of cod c ght previous to March 15 of the same year.

Th ipening of the reproductive organs is the stimulus which letermines the precise time of shoaling, and the quest arises whether a late fishery is associated with a retard ion of the annual maturation of eggs or sperma- tozoa. The year 1903 was characterised by the late appear-

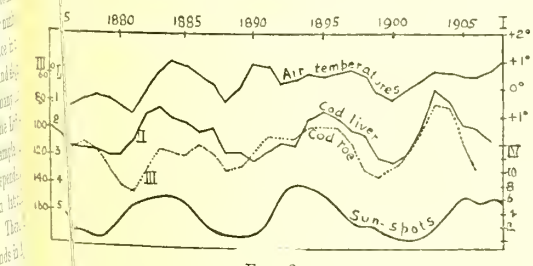


Fig. 2

ce of e shoals. The livers of the fishes, which indicate e co tion of the fish, were small and heavy, and the a (th best criterion of the maturity of the fish) were as small in March as in December of a good fishery year. The nutrition of the fish in 1903 (a year of exceptionally strong Gulf Stream flow) was thus far below normal. Fig. 2, which is drawn from data by Helland-Hansen and Nansen, gives a comparison over a number of years of (I.), the mean air-temperature at Lofoten, (II.), the cod-liver in hectolitres per 1,000 cod caught (indicative of nutrition) and (III.) the mean quantities of cod-roe per 1,000 fish (indicative of state of development). A direct relationship is evident between the liver and roe and the mean air-temperature. Although the correspondence is not particularly good, it serves to support the conclusion drawn above that the stronger the Gulf Stream flow the lower is the state of nutrition of the fish. The majority of the fish which reach the spawning grounds vary in age from five to seven years, and are probably sexually mature for the first time in their lives and accordingly should be referable to a spawning period about seven years prior to their appearance at Lofoten. It is interesting to note, says Mr. Johnstone, that on the whole curves showing the quantity of roe taken and the total numbers of cod taken can be superimposed to show similar phases if the curve of the latter be pushed seven years in advance of the curve of the roe taken. The explanation of the malnutrition of the fish in association with a high sea-temperature must be sought in a food-supply factor. Helland-Hansen and Nansen suggest that the inorganic food material of the East Icelandic Polar Stream is the controlling factor. The northern rivers flowing into the Polar Sea are rich in mineral products, and the greater mass of this is unused by the floating vegetation (plankton), which cannot develop under the ice owing to lack of light. The Gulf Stream mixes with the polar water in the sea between Iceland and the coast of Scotland, and as the former is warm but poor in inorganic foodstuffs it is there, or where the Gulf Stream mixes with coastal water, that the richest plankton will be found. Plankton is the diet of the small animals (micro-crustacea), which in turn directly or indirectly form the food of fish. If the strength of the Polar Stream be high, or that of the Gulf Stream low, the temperature of the drift off the coast of Norway will be unusually low, and the food material and fish abundant. In the reverse case, a strong Gulf Stream flow results in higher temperature and salinity but less food-material and poor fish. The relationship of the Gulf Stream flow to fishing prospects is likely to be a point of prime practical importance. Speculation is then led to the causes of the greater periodicity of the Gulf Stream drift. In fig. 2 the curve of the relative number of the sunspots is given, and it is evident that their fluctuations correspond roughly with those in the productivity of the Lofoten fishings. It would seem impossible to seek for any other cause than some cosmic one, such as solar radiation, for the variation in the intensity of the Gulf Stream flow, the current in northern latitudes being an extremely stable one, which could not be imagined to vary except under the influence of some powerful force, the effect of which would be marked and would persist for some time.

Licensed Poison-vendors.

We have recently reported that the champions of licensed poison-vendors are extremely anxious that these vendors should not treat the articles which they are licensed to sell as if they were bast-fibre, oil-cake, shovels, or other things like these. The latest warning to them is being issued by Mr. R. H. Smith, F.C.S., the Secretary of the Ironmongers' Federated Associations, in a letter to the effect that the Pharmaceutical Society are now doing their utmost to

prevent renewal of the licences, and are trying to entrap licensees, so he says. Then he proceeds :

"Several licence-holders have been persuaded to sell to unknown persons. Prosecution and convictions have followed. These emissaries do not try to entrap the members of the Pharmaceutical Society, only ironmongers, seedsmen, etc., hence the vindictiveness of the prosecutions. Our members should not sell to any unknown persons; there are several going about at the present time. They should be sure also that a label with their name and address is upon every bottle, can, or drum, with the word 'Poison,' and a notice stating the special purpose for which the article has been prepared. The Pharmaceutical Society are now contending that poisonous substances can only be sold by the actual holder of the licence, and that assistants cannot hand them out for sale. No case, however, has yet been proved to show that this contention is *correct*."

Mr. Smith appears to be unaware of the fact that it was decided by the High Court in appeal case, Pharmaceutical Society *v.* Wheeldon, that an assistant who is unqualified may not sell poison except under the direct supervision of a qualified person. This law also applies to persons who are licensed to retail poisons under Section 2 of the 1908 Act, and the sections of the Acts bearing upon the matter are printed on their licences. The licence-holder must be present at each sale of an agricultural or horticultural poison, and he is required by the Arsenic and Pharmacy Acts to make an entry of each sale in the book kept for that purpose, while in the case of preparations of arsenic the licensee, as well as the purchaser, must sign the entry; an assistant's signature is useless for the purpose, and is illegal. These facts are well known to registered chemists, as it is part of their training, but there is ample evidence that persons licensed under Section 2 of the 1908 Act are generally so unfamiliar with the law that they are delegating the duties specifically imposed upon themselves to assistants who are not licensed, and are thus perpetuating the dangers to the public which it was the express object of the Legislature to remedy in part by the 1908 Act. Mr. Smith's spiteful references to the Pharmaceutical Society require no reply from us, nor, for that matter, from anybody. Statistics are available which amply demonstrate the incorrectness of his statements, which chiefly serve to accentuate the fact that ironmongers and other tradesmen unfamiliar with and untrained in the business controlled by Pharmacy Acts are incompetent for the duties which they are licensed to perform. Ere long this fact must come home to local authorities, as well as to those higher authorities who aided the malcontents who found the 1851 and 1868 Acts inconvenient for the exploitation of their specialities in death-dealing.

The New Japanese Tariff.

After an interval of four years Japan has again decided upon drastic alterations in her import tariff, particulars of which we gave last week so far as they concern our readers. Practically every item in the tariff has undergone "revision," but an important fact is that all the unenumerated drugs, chemicals, and medicines are to remain at 20 per cent. *ad valorem*. Before the Russo-Japanese War these, with few exceptions, paid 10 per cent. *ad valorem*, a further 5 per cent. being added in 1904 and 5 per cent. again in 1906. In a number of instances *ad valorem* duties have been converted into specific duties, including the following :

Balsams, isinglass, dextrin, iodine, oxalic acid, salicylic acid, caustic potash, soda and potash iodide, refined soda nitrate, soda silicate, naphthalene, quinine, diastase, baking-powder, plasters, gelatin capsules, infants' foods, cod-liver oil, etc.

It is expressly defined in Article 2 that "duty upon an article subject to *ad valorem* duty shall be levied according to the value thereof at the time of its arrival at the port of importation." A fuller interpretation of this means that the dutiable value of articles subject to *ad valorem* rate will be the actual cost of the articles at the place of pro duction or purchase, with the additional cost of packin charges, cost of transportation, insurance, and all othe charges incurred up to the arrival of the articles at th port of importation. It is contended that such duties which of course, are levied on "c.i.f." values are inimical to Britis interests and put a premium on dishonesty by leaving th way open to falsification of invoices, which is very difficu to prove in the case of goods invoiced at low prices, sa "*ex* contract," with perhaps no contract in existence. Suc duties are also unequal in their imposition, inasmuch freight rates, insurance premiums, charges, and the fise systems vary considerably in exporting countries. Th in turn leads to speculation and facilitates bribery. leads to the giving of "special discounts" on goods in ord to reduce the cost, and, on the other hand, the Japane Customs authorities have to seek information corroborati invoice values, or evidence of undervaluation. Indec Japan has to adopt the same system as the United Stat Customs, and like it must work in the direction of creased valuation. It is well known that many shipme from Japan to the United States and *vice versâ* are held and even confiscated on account of undervaluation, and th an elaborate army of back-door agents and "spies" is ma tained, whose work is to seek to disprove shippers' sta ments, who on their side are equally anxious to mystify authorities. The tendency, therefore, on the part of Japanese Government to convert *ad valorem* duties i specific duties or fixed rates should be of advantage to porters and exporters, especially in cases where the va of goods has depreciated during transit. The questions t in the House of Commons this week show, however, t the proposals do not give general satisfaction. In nection with the "revision," it is interesting to note t several "points" were brought out during the discussion the Japanese Diet, which may be summarised as follows

Potash Chlorate.—Left on the free list because Japa matches were competing with cheap foreign matches in In and China, and the competition had been to the disadvan of Japan. A few years ago an attempt had been mad Osaka to manufacture the chlorate, but it ended in fail and there is no home production.

Saccharin.—Rate left unaltered at 4*l.* 12*s.* 6*d.* per market price was low, owing to large importations in ar pation of the duty.

Hops.—Left on the free list, because the cultivatio Japan has been given up as hopeless.

Caustic Soda.—Advanced from 1*s.* 1½*d.* to 12*s.* 6½*d.* per The domestic production had increased in value from 21 yen in 1902 to 338,000 yen in 1907, and the imports 20,000 yen in 1902 to 1,120,009 yen in 1907; this showe growth of industries using the article, and it was desire protect home production.

Ammonia Sulphate.—No protective duty could be imp as there was no home production; 1908 imports rose in to 8,780,000 yen.

Vinegar.—Reduced from 1*s.* 8*d.* to 1*s.* 3½*d.* per gal. Imp vinegar was used for table-purposes by foreigners, an reduction would not affect the home product.

Condensed Milk.—Raised from 5 per cent. to 40 per ce *ad val.*, because it was largely employed in industries in pl sugar.

Turpentine in Barrels.—Reduced from 6*s.* 1¼*d.* per g 5*s.* 7*d.* per gal. The prospects of production in Sag were hopeful, but "a heavy protective duty would defeat its own end" at the moment.

Musk, Artificial Musk, and Borneo Camphor.—As the products are inferior, the rates were considerably re The imported articles are used largely.

Some idea of the extent of Japanese trade in chemicals, etc., during 1909 was given in our iss April 9 (p. 557), and on comparison the Government a to have reduced the duties on articles which are employed in various kinds of domestic manufacture. year was poor for Japanese trade in drugs and che

imports, on the whole, being smaller than in former years, and to some extent home products replaced foreign articles, but this applied mostly to cheaper grades. According to the annual report of the Yokohama Chamber of Commerce for 1909 foreign merchants had to face direct competition by Japanese dealers, who in many cases imported chemicals for which adequate consumption could not be found, and this resulted in certain imports being thrown on the market at a loss. Prospects, however, improved in the second half of the year, and a more hopeful feeling was created for 1910.

"648."

The Coloured Supplement to The Chemist and Druggist was introduced shortly after the journal was changed from a monthly to a weekly publication, the express object being to afford to all connected with the wholesale and retail drug and chemical trades a convenient medium for what are technically known as "small ads." The success which has attended our Supplement is fairly well evidenced by its size and its quite remarkable circulation. Hundreds of persons connected with the trade who are on the look-out for situations and assistants, businesses or other wants of that nature, obtain it from our offices every Friday morning, these being in addition to the thousands of copies distributed to subscribers, a copy of the Supplement being inserted in each copy of The Chemist and Druggist. That our Coloured Supplement admirably fulfils its purpose is well known, but we confess to some surprise when the publisher informed us on Wednesday of this week that he had received 648 replies to advertisements in the issue of April 23 which called for replies to be addressed to his office. We are so accustomed to seeing his Supplement staff handling stacks of correspondence that we have taken for granted that a goodly number of replies are received, but this exact figure for one week is sufficiently interesting to mention here. Of course, it merely represents a fraction of the replies to advertisements, for most of such replies go direct to the advertisers, without coming to 42 Cannon Street, and it is one more proof of the sureness of the *C. & D.* as an advertising medium.

Chemists and Jury-service.

Lord Alverstone's Bill to amend the Juries Act, 1825, by repealing the words "not exceeding one hundred and forty-four" in Section 22 of the Act, passed through Committee in the House of Lords on Tuesday, and was reported for third reading. The Lord Chancellor, it is understood, is opposed to the Bill. With respect to the possibility of utilising this Bill for obtaining exemption of all chemists and druggists from jury-service, Mr. R. Winfrey, M.P., has informed our Parliamentary representative that in the event of it ever reaching the House of Commons he should certainly put down an amendment in favour of such exemption. Mr. Winfrey pointed out that there is no actual difference between a man who had passed the Minor and one who had passed the Major examination. As a matter of fact, the Minor is now as stiff as was the Major twenty years ago. At the present moment pharmaceutical chemists in England, Wales, and Ireland are exempt from jury-service, but pharmaceutical chemists in Scotland are not, nor are chemists and druggists in Great Britain, nor registered druggists or chemists and druggists in Ireland. Hence we desire to utilise this opportunity to test the feeling of Parliament on the subject. Chemists and druggists of Great Britain would have been exempted in 1862 when the United Society of Chemists and Druggists tried to secure exemption, but the Pharmaceutical Society stepped in, and pointed out that there was no register of chemists and druggists but one only of pharmaceutical chemists; so the latter were exempted, and chemists and druggists were not.

Fennel or Phenol?

Our columns frequently illustrate the ingenuity of the chemist in coping with the demands of illiterate customers and bad writing, but the dangers arising to the chemist and his client through faulty articulation or mispronunciation do not often come to light. An instance was mentioned at the meeting of the directors of the Chemists' Defence Association on April 7, when a claim was considered for medical attendance in consequence of a member supplying phenol for fennel. A girl of about fourteen was sent to a chemist for an ounce of fennel, which it was intended to boil with a pint of water, the dose of the decoction being a wineglassful. Influenza mixtures containing carbolic acid are in common use in the district, and the economical individual sometimes buys his phenol (pronounced indifferently "feenol" or "fennel") by the ounce or half-ounce. Accordingly an assistant under qualified supervision supplied an ounce of phenol, duly labelled "Poison." The patient, a lady in a weak state of health, was about to take some of the acid when her son, noting the label, said, "Surely you are not going to take that!" However, on the "kill or cure" principle both mother and son took a teaspoonful dose of liquefied carbolic acid in a wineglassful of water, with the resultant collapse of the lady and a claim for compensation.

Essential Oils of the B.P.

The Eucalyptus Oil Monograph.

By W. J. Brownscombe.

THE desire of the Committee of Reference in Pharmacy of the British Pharmacopœia, as officially voiced in Messrs. Hill and Umney's recent communication to the Pharmaceutical Society of Great Britain on "The Essential Oils of the Pharmacopœia," to obtain the opinions of all competent to advise by specialisation in manufacture or pharmaceutical study, prompts me as an original worker with the late Mr. J. Bosisto for over thirty years, both in pharmacy and in the investigation and manufacture of eucalyptus essential oils, to make a brief communication on the subject of the eucalyptus-oil standard.

I would preface my remarks by endorsing the statement of the authors that "since the publication of the last Pharmacopœia probably in no section of that work has greater progress been made than in the one for which we claim your consideration," adding that this in a special way applies to the chemistry and pharmacology of eucalyptus oils, and such will be my justification in urging a review in the interests of medicine of the monograph of this particular oil.

The principal constituents of eucalyptus oils are eucalyptol (generally associated with pinene) and phellandrene (generally associated with piperitone). Eucalyptus oils may be roughly divided into three characteristic classes, according as they consist principally of one or other, or both, of these constituents, thus:

Class 1.—Oils consisting principally of eucalyptol and containing no phellandrene.

Class 2.—Oils consisting principally of phellandrene and containing no eucalyptol.

Class 3.—Oils consisting of both eucalyptol and phellandrene.

The oil which Bosisto originally worked on and introduced into medicine and commerce, and which established the reputation of eucalyptus oil as a valuable medicinal agent of peculiar antiseptic, rubefacient, and stimulant properties, belonged to Class 3, and contained not only eucalyptol and phellandrene, but also piperitone and pinene. Some years afterwards distillates of *E. Globulus* of Class 1 from Algeria came on to the English market, and later on, when eucalyptus oil was adopted in the

Pharmacopœia, oils of both these classes then being used in medical practice were recognised as official. Later still, large quantities of oils of Class 2 came on to the market and, probably to meet the competition of these new Australian oils, dealers and distillers of the Algerian oils turned the attention of medical authorities to the greater abundance of the crystallisable body—eucalyptol—to be found in the *E. Globulus* class of oils compared with the Australian oils then in use, many of which contained none at all, and evidently succeeded in impressing them with the view that this body constituted the valuable medicinal principle of the oil, with the result that in the next revision of the Pharmacopœia (1898) oils of the eucalyptol-phellandrene class as well as oils of the purely phellandrene class were excluded in favour of the purely eucalyptol oils.

In view of the indisputable fact that the value of eucalyptus oil as a medicinal agent was established by an oil consisting of phellandrene as well as eucalyptol, the question that suggested itself to the writer on the issue of the new B.P. was : Were the compilers quite justified without better evidence than was then available in excluding oils that contained phellandrene? Subsequent research proves not. However, the matter is again under review, and the question that forces itself upon consideration is, whether in the light of recent research and the advance in the chemistry and pharmacology of eucalyptus-oil constituents the Committee would be justified in recommending an alteration of the monograph so as to include again oils of the eucalyptol-phellandrene class. A perusal of Dr. Cuthbert Hall's brochure on the bactericidal values of eucalyptus-oil constituents will furnish a ready and effective answer to such a question. The recent bacteriological researches of Dr. Hall in the pathological laboratory of the Sydney University have given quite a new insight into the therapeutics of the different constituents of which eucalyptus oils are composed. Dr. Hall has undertaken an investigation which, besides being the first of its kind, has quite altered preconceived ideas of others as well as his own as to what constitutes a good medicinal oil. Briefly the general results of his research may be summed up thus :

1. That pure eucalyptol practically possesses but very feeble antiseptic powers.
2. That phellandrene and piperitone are strongly bactericidal, and are the constituents which largely give eucalyptus oils therapeutic value.

Conclusions which, I may say, bear out Bosisto's original views as to the best class of oils for general medical use. In view of Bosisto's and Hall's researches and investigations it might appear as though it would be advisable in the interests of medical science to discard the purely eucalyptol class of oils altogether, but perhaps without further medical investigation it might not be considered wise to advocate so radical a change at present. In the meantime, however, I think the Committee would be amply justified in recognising Dr. Hall's work and recommending to the General Medical Council that, provided phellandrene-piperitone oils contain a reasonable proportion of eucalyptol, they should be admitted for medical use and official recognition in the next edition of the Pharmacopœia. The oil in almost exclusive use in the Australian States for the past thirty years contains not more than 30 per cent. of eucalyptol besides phellandrene, piperitone, aromadendral, and pinene, and may be accepted as a typical medicinal oil. Australia is the home of the eucalyptus, where it is a universal popular household remedy as well as largely used in medical practice, and doubtless Australian manufacturers' views as well as medical research and investigation will receive, as they merit, due consideration at the hands of the Committee of Reference in Pharmacy of the British Pharmacopœia.

Richmond, Melbourne, Vict., March 23.

Mr. James Edward Dockray, of Seacombe, druggist's warehouseman, formerly of 19 Violet Street, Liverpool, who died on March 30, left estate valued at 357*l.* 0*s.* 3*d.*

Mr. Henry Hitchman, chemist and druggist, Kettering, who died on January 25, aged seventy-two years, left estate of the gross value of 4,955*l.* 4*s.* 2*d.*, with net personalty *nil.*

Mr. William Secundus Collins, of Wave, Ashburton, formerly of the City Soap-works, London, who died on December 20 last, aged seventy years, left estate valued at 4,343*l.* 4*s.* 6*d.* gross.

Chemical Society.

A MEETING was held in Burlington House on Thurs day evening, April 21, the President (Professo H. B. Dixon, F.R.S.) in the chair. Before calling on th authors of the first paper, the President mentioned tha Professor Körner was celebrating his seventieth birthday and he read the congratulatory letter which would be se in the name of the Society. The first paper read was b Dr. Flürscheim and T. Simon on

Tetranitroaniline.

The work brought out many interesting points on t influence of a nitro group on nitration. In the case m-nitraniline, the nitro group possesses great reactivit The authors brought forward an hypothesis as to the mea by which nitration proceeds. The suggestion was that intermediate body is formed by replacing a hydrogen ato in the amino group. In support of this they showed th an intermediate body could be isolated in the nitration 1 : 3 : 5 dinitroaniline.

This was followed by a paper by Dr. Vernon Harcou dealing with the

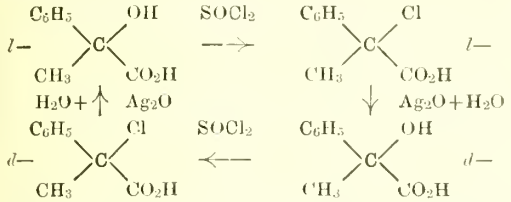
Estimation of Small Quantities of Lead

by a colorimetric method. In this the lead is precipitat as sulphide by sulphuretted-hydrogen water in the presen of sodium acetate and sugar, and the colour obtained co pared with a series of standard tints. Owing to the fa that lead sulphide is bleached by exposure to light, it impossible to preserve standards of this body, theref the colour obtained by precipitating known quantities lead nitrate was matched by mixing solutions of copp cobalt, and ferric sulphates. The author found that a tint of brown could be obtained by a suitable mixture these three bodies. This process cannot be used wh there is present any other body which under the conditi obtaining produces a dark sulphide. Dr. Harcourt fou that standards made by daylight were useless in the li of an ordinary gas-flame or an electric glow lamp, retained their efficiency when used with incandescent g

The next paper, by Mr. I. Thorpe, was a criticism Komppa's synthesis of apocamphoric acid. A very teresting experiment on

The Walden Inversion

was next described by Messrs. A. McKenzie and G. Clough. In all the experiments hitherto brought forw on this subject the compounds treated have containe hydrogen atom attached to the asymmetric carbon at In order to see whether this is a necessary condition attempt was made to convert the active atrolactinic ac into their enantiomorphous forms. Some time ago a m ture of unequal proportions of the two isomerides obtained by Grignard's reaction, which gave a rotation $-9.5°$ in an alcoholic solution. At this time the pure isom were not known, so it was not possible to say what p portion of each was present. This mixture may rea be resolved, however, since morphine in aqueous solut gives a sparingly soluble salt from which the pure *l*-a lactinic acid may be obtained. It has a rotation in et alcohol of $-37.7°$. The *d*-acid was isolated by mean quinine in alcohol. Since a mixture of the two isomers obtained in this reaction the Walden inversion must taken place at some point. The authors next endeavou to replace the hydroxyl group in the acid by chlorine. treating *l*-atrolactinic acid with fuming hydrochloric an inactive body was obtained which could not be resol However, by the action of thionyl chloride on the *l*- a compound containing chlorine in the place of hydr was obtained having the same sign of rotation as the a This reaction takes place at ordinary temperatures. W converts this chloro-body into a racemic atrolactinic a but in the presence of silver oxide the *d*-atrolactinic was formed. This *d*-acid with thionyl chloride ga *d*-chloro body which, with water and silver oxide, yie the *l*-atrolactinic acid, thus completing the circuit.



Mr. Slater next read a paper by himself and Mr. H. J. S. Sand on the

Rôle of Diffusion in Fermentation by Yeast-cells, in which were worked out the concentration of sugar which would efficiently supply a yeast-cell with material for fermentation. He pointed out that while fermentation takes place within the cell the rate of diffusion through the cell-wall is so rapid that it does not become a factor in the rate of fermentation. Under special conditions, however, such as employing a very active yeast or a very weak sugar solution, it might possibly have an effect. These conditions they wished to determine. Considering a single cell placed in a solution of known concentration and allowed to attain a state of equilibrium, an equation was obtained giving the difference of concentration of the sugar at the surface of the cell and at a distance in terms of the diffusibility of the sugar, its rate of decomposition, and the radius of the cell. Assuming that the enzyme is uniformly distributed throughout the cell, then a similar equation was obtained showing the difference of concentration at the centre of the cell and at the surface. From these equations, taking known values for the rate of diffusion, the rate of decomposition of the sugar, and the size of the cell, they arrived at a figure—1.2 mgm. per litre—for the concentration which would efficiently supply the cell with material.

The paper was discussed at some length by Dr. Brown, who suggested a simpler method for arriving at the limiting values for the concentration. This method obviated the necessity for assuming the uniformity of the enzyme throughout the cell, and thus removed the undeterminable factor.

The Commerce Act of Australia.

Under the Commonwealth Commerce (Trade Descriptions) Act, 1905, fresh regulations have been prepared and were adopted by the Governor-in-Council on February 11, and issued early in March. Many alterations are made in the requirements with reference to imported medicines, but the general tenor is that the regulations under the Pure Food Act of New South Wales have now been adopted for all imported medicines for the whole of Australia. The definition of "covering" has been made more inclusive. "Coverings" mean all the principal coverings in which goods are contained, and in which such goods are usually sold wholesale or retail. "Food and Drink" is a new definition. These include every article used as food or drink by man other than drugs and water. The trade description to be applied is defined in more definite terms. According to the previous regulation it was to be in the form of a label or brand affixed in a prominent position to the goods or to the coverings containing the goods. It is now to be a principal label fixed in as permanent a manner as practicable to the goods, or where this is impracticable, to the coverings containing the goods. Formerly it was to contain in legible characters a true description of the goods and the name of the country or place in which the goods were made or produced. Now it is to contain these in prominent and legible characters. As before, the weight or quantity is to be set out, and whether it is gross or net. In the case of articles used as food or drink by man the label must also set forth if and what deleterious or preservative substances are present, and in the case of preservative substances the amount per pound or pint. In the case of food for infants, if not suitable for general use for infants under the age of six months, the trade description must include in legible characters and conspicuously displayed the following words: "Not suitable for infants under the age of six months." The regulation relating to the declaration of the presence of spirit or ethyl alcohol in medicines and medicinal preparations is changed. It applies only to medicines for internal use, and while the 10 per cent. by volume of ethyl alcohol is retained, it is also stated as 17.5 per cent. by volume of proof spirit. Formerly the trade description was to set out the proportion or quantity; now it must be the percentage by volume of proof spirit contained in the drugs. Formerly any preparation the average dose recommended of which did not exceed one teaspoonful, or 60 minims, was exempted, but the exemption is now removed. The presence of a limited number of drugs in any medicine formerly had to be declared on the label. The list has now been greatly extended and includes the following:

"In the case of medicines and medicinal preparations for internal or external use, if the goods contain any of the following drugs, or the active principles, salts, compounds, derivatives, or preparations thereof, viz.:

Bromides, iodides, chloral, chloretone, dionin, dormiol, paraldehyde, heroin, sulphonal, veronal, or any natural or synthetic hynoptic substance; or

Cantharides, cotton-root, ergot, oil of pennyroyal, oil of rue, oil of savin, oil of tansy, oil of parsley, or any emmenagogue or reputed abortefacient substance; or

Any drugs of vegetable origin being or containing any poisonous alkaloid, glucoside, or similar potent principle, or any derivative thereof; or

Acetanilide, exalgine, phenacetin, phenazone, or any allied analgesic or antipyretic substance; or

Any salt of arsenicum, barium, copper, lead, or mercury; or

Adrenaline or the like, bromoform, carbolic acid, chloroform, creosote, cresylic acid, hydrocyanic acid, free phosphorus, nitroglycerin, or methylated spirit, the trade-description shall include an explicit statement to such effect, setting out, in regard to any substance specifically named in this list, such specified name of the substance, or, in the case of any substance included but not specifically named in this list, the name most commonly applied to the substance in the English language in the Pharmacopœias of Great Britain and the United States of America, or in the British Pharmaceutical Codex or other recognised authority, and also the quantity or proportion of the drug present in the goods."

An important circular regarding these new regulations has since been issued to Customs officials.

Date of Coming into Force.—Paragraph 5 is:

"Although the regulations will have the force of law on and after April 1 it is particularly desired that until after June 30 next no steps be taken to enforce such of the provisions as are new. Where prescribed goods comply with the requirements of the present regulations the collector will, until after the latter date, take no steps to detain them for non-compliance with the new provisions or require any amendment of the markings. It will suffice if in such cases the importer is informed of requirements and requested to take all necessary steps to ensure that future importations will be marked in strict accordance with the law."

Trade Description.—Regulation 7 (*a*). The amendments are directed to ensure that the intention of the Commerce Act shall be given effect to—namely, that the trade description shall be brought under the notice of the consumer and afford him some protection against imposition. This intention should be kept in view when interpreting the clause. Wherever practicable the trade description shall be applied to the goods themselves. "A somewhat lenient view may for the present be taken in determining whether or not it would have been practicable to have applied a brand or label to the goods. In no case is it to be held to be practicable to do so if such would involve actual damage to the articles." Such cases, it is thought, will be rare. The second alteration is that the trade description shall be applied in as permanent a manner as practicable. Generally speaking, any manner of application which will reasonably ensure the trade description reaching the consumer may be accepted. For example, stamping in chalk on the feet of socks or labels stitched or tacked or securely stapled to any article of apparel would be accepted. But applications having no degree of permanency—*e.g.*, pinned on labels—would not be regarded as complying with the requirements.

Infants' Foods.—Regulation 8 (*b*). As the principle has been in force for some time no relaxation of the enforcement of the requirements need be made. Where, however, a food coming under the clause bears, in lieu of the statement now prescribed, the words "suitable only for infants over the age of six months," such may up to the end of the year be accepted as complying with the requirements.

Nursing Exhibition.

A NURSING and Midwifery Conference and Exhibition is being held this week at the Royal Horticultural Hall, Vincent Square, London, S.W., and is attracting a large number of nurses. There is a representative exhibition, the articles shown being mostly foods. The catalogue is in the form of a "Year-book," and contains particulars about nursing examinations, registration of midwives, prescription abbreviations, and a dictionary of medical terms. The following are short notes of those exhibits which are of special interest to our readers :

Foods.

There is a good choice in invalid and infants' foods. The Bayer Co. show various kinds of Somatose and Guaiacose, the latter a compound of somatose and guaiacol-calcium sulphonate. Casein, Ltd., have Phosphova as their new casein food, and also show Laitproto pure-food casein, Trumilk powder, separated milk-powder, sweet-whey powder, Truegg (egg-powder), and Mercalox soap. Savory & Moore attracted a crowd at their corner stand by distributing tasting samples of Café Zylak and Peptonised Cocoa. "S. & M." Food and Savore are the chief products shown, but Fructole (a new chemical food) and Laxam (a vegetable laxative) are *en évidence*. A. Wulfing & Co. exhibit Sanatogen and Albulactin; the greater digestibility of the latter over milk is being shown by two large vases of liquid. Wander, Ltd., show Ovaltine, dry-malt extract, and Formitrol pastilles. Other foods shown are Glaxo, Veda, Plasmon, Horlick's malted milk, Mellin's, Robb's, Robinson's barley and groats, Miol, Maltine, Bovril, Virol, Lemco and Oxo, and Christian's natural foods. Brand & Co., Ltd., have a stall devoted to their invalid specialities; whilst Cadbury Bros., Ltd., and J. S. Fry & Sons, Ltd., have attractive exhibits of chocolate and cocoa.

Beverages

are represented by special forms of milk and medicated wines. Nestlé and Anglo-Swiss Condensed Milk Co. show condensed milk and "Milo" food. Townson & Mercer exhibit "Le Tutélaire" home milk pasteuriser and a special valved india-rubber teat with the same title. Walker-Gordon Laboratories, Ltd., have a milk display and state that they are prepared to modify milk to any extent on physicians' prescriptions. The Aylesbury Dairy Co., Ltd., have several forms of soured milk under the name of "Lactor"; these include chocolates and cream-cheese. Welford & Sons, Ltd., show sauermilch, also whey and cheese, these containing Metchnikoff's bacteria, whilst Fermenlactyl buttermilk contains cultures of strepto-bacillus Lebenis. The London Pure Milk Association, Ltd., have "Le Ferment" Lactobacilline milk, for which the company is the British concessionnaire. The wine exhibits are by Stephen Smith & Co., Ltd. (Carvino is the novelty), Coleman & Co., Ltd. (Wincarnis), and Bendle, Ltd. (Nutrovin).

Surgical Appliances and Dressings.

Nursing requisites and surgical instruments are shown by W. H. Bailey & Son, Ltd. (the Belgrave slipper bed-pan is a new shape), Cory Bros., Ltd.; and the Medical Supply Association (Grevillite bed-pans, Ivoriz tooth-paste, and Lacto-globulin food). Sanitary towels are exhibited by Southall Bros. & Barclay, Ltd., Robinson & Sons, Ltd. (Mene towels), and The Sanitary Wood Wool Co., Ltd. (Hartmann's towels). John Bell & Croyden, Ltd., are showing how they sterilise dressings for doctors, a model of the sterilising chamber being an attraction at the stand. The new hygienic syphon is also being exhibited here and the Nauheim salts. E. & R. Garrould have an annexe fitted up as day and night nurseries, and in the main hall have nursing requisites. These latter include a new zymotic face protector and "Diffuser" covered sponges. The Domen Belt Co., Ltd., have a good variety of their well-known abdominal belts, intelligently explained by the lady attendant. Carters, Ltd., have a variety of chairs and tables for invalids, and R. H. Woodland a special invalid chair known as the "Eastbourne."

Proprietaries.

Disinfectants are shown by the Sanitas Co., Ltd.; Newton, Chambers & Co., Ltd. (Izal); Jeyes' Sanitary Fluid Co. (Cyllin); and the Chinosol Hygienic Co., Ltd. (Finkler's papain is also exhibited on this company's stall). Burroughs Wellcome & Co. show specially first-aid cases for nurses, compressed dressings, ernutin (an ergot preparation), Alaxa (liqueur of cascara sagrada), vaporoles of ammonia and enule suppositories. Rouse & Co. exhibit Lenitol, a paraffin aperient, and Bragg's charcoal products. The Angier Chemical Co., Ltd., show Angier's emulsion; and the Charles H. Phillips Chemical Co. milk of magnesia. Fairchild Bros. & Foster have a good display of their pepsin products, and not far away is the stand of Parke, Davis & Co., where Mr. Hickey is busy explaining the advantages of the euthymol preparations. We noted here a good show-card for cod liver emulsion. Other specialities are shown by Lamont, Corliss & Co. (Mennen's toilet-powder); Kolynos Incorporated (dentifrices); Rocla Natural Tonic Co., Ltd.; The Meyer Sander Dental Supply Co.; the Erasmic Co., Ltd. (Tesco soap and Rose of Lancashire perfume); and F. S. Cleaver & Sons, Ltd. (terebene soap). Lewis & Burrows, Ltd., have a display of nursing specialities, including the "Ellanbee" benzoin preparations.

Trade Notes.

Messrs. May, Roberts & Co., Ltd., 7, 9, and 11 Clerkenwell Road, London, E.C., inform us that on and after Monday, May 2, and until further notice, their warehouses and offices will be open from 8.30 a.m. to 12 noon and from 1 to 5.30 p.m., except on Saturdays, when the business hours will be from 8.30 a.m. to 12.30 p.m.

Dental Cream.—The Standard Tablet and Pill Co., Hove, send us another of the series of tooth-pastes which they put up in collapsible tubes. This one is called "Dental Cream," and is a soft white paste with a flavour of peppermint. It is put up in the same style as the "Pearl" tooth-paste recently referred to in this column.

Goodall's Price-list.—The new quarterly prices current of Messrs. Goodall, Backhouse & Co., White Horse Street, Leeds, consists of fifty-six quarto pages. The packed-goods section is plentifully illustrated, while the proprietaries list is very full. Druggists' sundries and drysalteries are also included in the list, which chemists can obtain upon application.

P.A.T.A. Prices.—The following additions have been made to the Protected List during April: Allenburys' Rusks; Bonza Salve; Densuris; Ems Water; Frame Food Essence; Grossmith's Shem-el-Nessim additional preparations; Mellin's Food Chocolate; Olympic Corn Dots; Quibell Bros.' additional preparations; Securitine; Southall's cod-liver-oil emulsion; Sparklet "C" syphons and bulbs; St. Raphael Tonic Wine; Vichy Water (Richelieu Spring).

Messrs. Arthur H. Cox & Co., Ltd., pill and tablet manufacturers, St. Martin's Place, Brighton, have disposed of the rights to manufacture, and the trade-marks etc., of Massolettes and Massogran to Lactic Ferments Ltd., 8 Brunswick Row, Brighton (whose registration as a company was recently reported). Messrs. Arthur H Cox & Co., Ltd., will act as agents for the sale of the preparations, but orders of 1 doz. and upwards should be addressed to Lactic Ferments, Ltd.

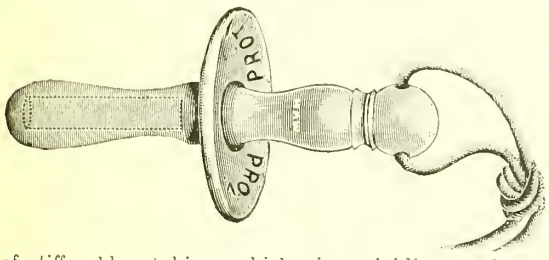
"Nurse Margery" Pneumatic Soothers.—Messrs. Shirley Bros., Ltd., Whitecross Works, Rockingham Street, London, S.E., have put on the market a new series of soothers, the teats of which are made of transparent pure indiarubber. These are manufactured by a new process, for which a patent has been applied. The teats are remarkably strong, and are made in a variety of styles to retail at from 1*d*. to 6*d*. each, consisting of the usual bone ring and shield with a cotton or silken cord—according to price. To get an idea of the safety character of the soothers, we had a 1*d*. one forcibly pulled by two persons and although the teat stretched, it neither broke nor came off the shield grip. The teats are quite pneumatic, there being nothing whatever inside but air, and they have a

the resiliency and firmness that is necessary for babies cutting teeth. The soothers are well-finished, and of exceptionally good value. Full particulars of and quotations for them will be found in Messrs. Shirley Bros.' advertisement in our Colonial Issue, April 23, p. 31. The teats are obtainable either uncoloured or in "grape" colour.

"Doomo" for Rats.—A correspondent recently related in the *C. & D.* how rats folded a sheet of brown paper smeared with Venice turpentine, thus avoiding the sticky surface. We have before us a picture-postcard issued by Messrs. Jno. H. Smith & Co., "Doomo" Works, Newark-on-Trent, which proves that all rats are not so "brainy," or that all surfaces are not so easily avoided. The photograph shows the rat caught on a "Doomo" air-ship fly-band, which had previously done duty as a fly-catcher and had been thrown away in a dust-bin. Any chemist will receive a copy of the card by writing to Messrs. Smith for it. It is a curiosity.

"May Queen" Powdered Toilet Soap.—This article, which Messrs. Henry Shaw & Co., Dukinfield, have recently placed on the market, is an excellent line for chemists to take up. Powdered soap for use in the toilet has become more appreciated of recent years, especially by those who object to use the same tablet of soap that other people have washed with, and Messrs. Shaw have realised that a good article put up in an attractive manner and sold at a low price will sell well. Their "May Queen" is put up in tins with perforated tops, and retails at $3\frac{1}{2}d.$ per box. It is equally useful for the toilet, bath, and shaving. The firm offer to send a sample to any chemist who applies to them for it.

Messrs. S. Maw, Son & Sons, 7 to 12 Aldersgate Street, London, E.C., have obtained provisional protection for a new soother with transparent teat, inside which is a piece



of stiff rubber tubing, which gives rigidity to the teat. The method of insertion is shown in the accompanying illustration. The soothers are mounted on bone, and retail at $2d.$ to $6d.$ each. The one illustrated is the exact size of No. 124, which costs $2s.$ per dozen.

Business Changes.

Notes for this section must not be in the nature of advertisements, and they should be authenticated when sent to the Editor.

Boots, Ltd., have opened a branch at 17 Corporation Road, Middlesbrough.

Mr. John Rennie, chemist and druggist, late of Whalley Range, Blackburn, has opened a pharmacy at Chorley, Lancs.

Mr. David Roger Rowlands, chemist and druggist, has removed to his new pharmacy at 108 Chester Street, Birkenhead.

Boots, Ltd., have taken over the business of the late Mr. T. Blackbourne at 580 Coventry Road, Small Heath, Birmingham, and are removing to larger corner premises shortly.

Old Shopman (to boy who has forgotten what his mother has sent him for): "Maybe it's tintacks, or is it floor-polish? It canna be treacle, because ye have na got a jug. Is it a wee bit tobacco fur yer Paw? No? Then it's perhaps a quarter-pun o' tea? It's no linoleums or bootlaces yer mither's wanting? Canna ye think, laddie? Is it hair-pins or currant cake? Perhaps it's——" *Boy*: "Ive just thocht of o't. It's a soother for the babby." *Shopman*: "Awa' wi' ye to the druggist; we dinna keep them."—*Punch.*

Contracts.

Settlement of the following contracts have been notified since our last issue:

Aylesbury Urban Council.—Mr. E. T. Palmer, chemist, Aylesbury, for disinfectants at $3s.$ $6d.$ per gal.

Carlisle Guardians.—Mr. Thos. Ridley, Carlisle, appointed chemist for six months.

East Ham Town Council.—Mr. Knights Dack, chemist, East Ham, for drugs and sundries at the following prices per lb. (except where otherwise stated): Crushed linseed, $2s.$ $10d.$ per 14 lb.; pv. glycyrrhizæ co., B.P., $3\frac{1}{2}d.$; pv. acid. boric., $2\frac{1}{2}d.$; ung. acid. boric., B.P., $6d.$; acid. boric. (xtl.), $3\frac{1}{4}d.$; ol. olivæ, $6s.$ $8d.$ gal.; vaseline, $10\frac{1}{2}d.$; sp. vini meth., $2s.$ $10d.$ gal.; lin. camph., $1s.$ $1d$; liq. ferri perch. fort., B.P., $2d.$; vin. ipecac., $1s.$ $2d$; ol. ricini opt., $5d.$; zinci oxidum, $1s.$ $1d.$; liq. strychninæ, $1s.$ $5d.$; collodium flexile, $2s.$ $10d.$; tr. benz. co., $3s.$ $4d.$; ung. hydrarg. ammon., $1s.$; tr. guaiaci, $3s.$ $4d.$; ol. menth. pip., $9d.$ oz.; bism. carb., $7s.$ $6d.$; lanoline and cold-cream, $10d.$; tabloid sodii salicylas, tab. pulv. ipecac. co., and soloid hydrarg. perchlor., $1s.$ $2d.$ per bott. of 100 tab.; phenacetin co. and tab. cascara and gent. co., $1s.$ $4\frac{1}{2}d.$ per bott. of 100; tab. quinine sulph., $8\frac{1}{2}d.$ per bott. of 100; peptonising-powders, $12s.$ $9d.$ per doz. botts.; acid, oxalic, $4\frac{1}{2}d.$; ext. casc. sag. liq., $1s.$ $1d.$; chloroform, pure (D. & F. ex. S.V.R), $2s.$ per $\frac{1}{4}$-lb. bott.; chloroform, B.P., $1s.$ $8d.$; ung. zinci, $8\frac{1}{2}d.$; glycerin, $1s.$ $1d.$; glycerin and belladonna, $2s.$ $2d.$; cod-liver oil, $5\frac{1}{2}d.$; iodoform (pulv.), $11s.$ $9d.$; potass. permanganas, $5\frac{1}{2}d.$; pulv. amyli, $2d.$; syr. ferri. phos. co., $3\frac{1}{2}d.$; Seidlitz powders, $4\frac{1}{2}d.$ doz.; ol. eucalypt., $1s.$ $3d.$; acid. carbolic. liq., $6d.$; liq. bromo-chloral co., $1s.$ $6d.$; vials (2-oz.), $4d.$ lb.; bottles (4-oz.), $6d.$ (8-oz.), $8d.$; rubber catheters, $4s.$ $6d.$; bottle-brushes, $6d.$; hair-brushes, $2s.$ ea.; Higginson's syringes, $1s.$ $4d.$ ea.; metal dressing-combs, $6d.$ ea.; small-tooth combs, $2s.$ $6d.$ doz.; glass syringes, $3s.$ doz.; foot-warmers, $1s.$ $3d.$ ea.; plaster, $3s.$ $3d.$ per 6-yard tin; rubber plasters, $10d.$ ea.; ice-bags, $1s.$ $8d.$ ea.; round bed-pans, small, $1s.$ $6d.$ ea.; medium, $1s.$ $10d.$ ea.; slipper bed-pans, small, $1s.$ $9d.$ ea.; medium, $2s.$ ea.; medicine-measures, $2s.$ $3d.$ doz.; glass measures (10-oz. and 20-oz.), $8d.$ ea.; white enamelled boxes, $6s.$ $6d.$ ea.; white enamelled lotion-bowls, $12s.$ $9d.$ doz.; specimen-glasses, $5s.$ doz.; white enamelled trays, $16s.$ $6d.$ doz.; children's tooth-brushes, $3s.$ $6d.$ doz.—Hospital and General Contracts Co., Ltd., for wood-wool, $6\frac{1}{2}d.$; absorbent wool, $6d.$; boric lint, $9d.$; hospital lint, $1s.$; nail-brushes, $4s.$ $9d.$ doz.; tow $2\frac{1}{2}d.$; throat-brushes, $1s.$ doz.; feeding-cups, large, $5s.$ doz.; small, $4s.$ $6d.$ doz.; gauze (per 6 yards), plain, $5d.$; cyanide, $5d.$; iodoform gauze, $8d.$ per 12 yards; bandages, $10d.$ doz.; waterproof cambric, $1s.$ $10d.$ yard; minim-measures, 1-dr., $4d.$ ea.; 2-dr., $5d.$; clinical thermometers, $16s.$ doz.—Disinfectants: The Sanitas Co., Ltd., for carbolic powder at $2l.$ $10s.$ per ton; crude Sanitas at $1l.$ $15s.$ per 10 gals.; H. Edward Hope & Co. for Formalin at $2l.$ $8s.$ $6d.$ per 10 gals., coal-tar fluid at $14s.$ $2d.$ per 10 gals.; Mr. G. J. A. Baker, for Cyllin soap at $14s.$ $9d.$ per $\frac{1}{2}$ cwt.

Eastry Guardians.—Hooper & Co., for 40 yards of waterproof sheeting at $2s.$ $9d.$ per yard.

Faversham Town Council.—Mr. T. J. Thomas, Faversham, for disinfectants at $30l.$ $6s.$ $10d.$

Hertford and Ware Joint Hospital Board.—Mr. Lewis, Ware, for the supply of medical sundries during the ensuing six months.

Swindon and District Hospital Board.—Green & Co., Swindon, appointed chemists for six months.

Waterloo Urban Council.—The Killgerm Co., Ltd., Cleckheaton, for carbolic acid, and the Sanitary Dry Lime Co. for carbolic powder.

West Ham Guardians.—Mr. A. Berliner; Burgoyne, Burbidges & Co.; Hospital and General Contracts Co., Ltd.; S. Maw, Son & Sons; B. Pratt & Co.; and Robinson & Sons, Ltd., for surgical dressings.

West Ham Town Council.—Spenco & Sons; Allen, Harding & Co.; Middleton Bros.; and A. C. Young & Co. for annual supplies of chemicals.

From "Queries and Answers" in an Indian paper: "Will anyone kindly suggest an effective cur for eczema?" All the curs we know have it already.—*Punch.*

Synthetic Camphor.—At the annual meeting of the Chemische Fabrik (formerly E. Scherings) Berlin, attention was directed to the paragraph in the company's report for 1909 referring to the further decline in the value of synthetic camphor, which was attributed to the price-policy adopted by the Japanese monopoly administration. It was stated that the Japanese Government now seemed to have perceived that price-cutting must come to an end, as the State itself was no longer earning profits on the business.

Trade-marks Applied For.

Objections to the registration of any of the undermentioned applications must be stated on Form T.M. No. 7 (obtainable at Money Order Offices for £1) and lodged with Mr. Temple Franks, Comptroller-General, Patents Office, 25 Southampton Buildings, Chancery Lane, London, W.C., within one month of the dates mentioned.

The figures in parentheses refer to the classes in which the marks are desired.

(From the "Trade-marks Journal, April 6, 1910.)

"G" in a diamond device; for eyeglass chains (14). By Groos, Ltd., 24 Hatton Wall, London, E.C. 320,141.

"Versal"; for photographic papers (39). By Kodak, Ltd., 57-61 Clerkenwell Road, London, E.C. 320,157.

"Florozel"; for perfumery, etc. (48). By Watts Bros., 43 High Street, Manchester. 319,587.

"Trixola"; for a hair-preparation (48). By C. O. Rainer, 63 Brickdam, Georgetown, Demarara. 319,732.

"Enchantress"; for perfumed soap and perfumery (48). By Yardley & Co., Ltd., 105 Carpenters Road, Stratford, Essex. 320,621.

"Motogol"; for motorists' perfumed soap (48). By Scott & Turner, Ltd., 4 Gallowgate, Newcastle-on-Tyne. 320,819.

"Velderm"; for toilet-articles (48). By J. W. Quibell, 6 Perry Vale, Forest Hill, Surrey. 321,074.

"The Progress Comb"; for hair-combs (50). By Aberdeen Comb Works Co., Ltd., 40 Hutcheon Street, Aberdeen. 321,145.

(From the "Trade-marks Journal," April 13, 1910.)

"Carlerno"; for all goods (1) and (8). By Carl Ernst & Co., 27-31 Earl Street, London, E.C. 321,162/3.

"Kointesto"; for chemicals (1). By W. G. Leslie, 240 High Holborn, London, W.C. 321,408.

"Vita Feedine"; for veterinary medicines (2). By H. J. Benton, 102 Holly Road, Handsworth, Staffs. 320,402.

"Dickill"; for a preparation for destroying vermin in animals (2). By F. A. Newey, 18 Layerthorpe, York. 320,813.

"Dispersine"; for chemicals (2). By Day & Knight, 86 Week Street, Maidstone. 320,930.

"Vermibane"; for all goods (2). By Terra Compo Co., Pocket Nook, St. Helens. 321,108.

"Kamiam"; for a disinfectant (2). By E. W. Dodge, 26 Frith Road, Hove, Sussex. 321,419.

Picture of camomile plant; for an ointment (3). By A. H. Stripe, 16 St. James' Road, Southsea. 313,945.

Picture of crossed swords, dove with olive-branch, and the letters "P A X"; for a medicine (3). By Pax Syndicate, White Hart Street, High Wycombe. 316,090.

"Odat" and "Magnodat"; for medicinal chemicals (3). By Coswig-Anhalt Manfg. Co., Ltd., Coswig-Anhalt, Germany. 319,161/2.

"Syl"; for a medicinal preparation (3). By W. H. Martindale, 10 New Cavendish Street, London, W. 320,798.

"Abbey"; for medicinal chemicals (3). By L. I. Akker, van Alkemade Straat 23, Rotterdam. 321,047.

Device of letters "I & C," bearing the heads of a Hindoo and a Chinaman; for medicinal chemicals (3). By J. Burton & Sons, Ltd., Talbot Street, Nottingham. 321,490.

"Raprem"; for medicinal chemicals (3). By R. P. Roe, 3 Packers Row, Chesterfield. 321,656.

Label device, with word "Bloom's" and picture of woman's face; for all goods (8). By M. B. Bloom, 53 Bedford Street, London, W.C. 320,212.

Device of eye, with words "Bateman's," etc.; for optical goods (8). By F. Bateman & Co., Ltd., 55 Berners Street, London, W. 319,488.

"Ammochlorique": for an ammonia-chloride inhaler (11). By C. J. Hewlett & Son, Ltd., 35-42 Charlotte Street, London, E.C. 320,956.

"Otex"; for eyeglass-chains, etc. (14). By Groos, Ltd., 24 Hatton Wall, London, E.C. 320,932.

Label device, with "Wincarnis"; for a food-substance (42) and for an alcoholic beverage (43). By Coleman & Co., Ltd., Wincarnis Works, Norwich. 319,821/2.

"Phospro"; for food-substances (42). By Phospro Co., 3 Staple Inn, London, W.C. 320,408.

"Milo"; for infants' food and condensed milk (42). By Nestlé and Anglo-Swiss Condensed Milk Co., 6 and 8 Eastcheap, London, E.C. 321,226.

"Gerola"; for mineral waters (44). By Schloss-Brunnen Gerolstein Manfg. Co., Ltd., Gerolstein, The Eifel, Germany. 316,866.

"Angostura," and facsimile signature; for mineral and aërated waters, etc. (44). By Dr. J. G. B. Siegert & Sons, Ltd., Salisbury House, Finsbury Circus, London, E.C. 319,086.

"Flag On," and picture of mountain-top, with flag; for mineral and aërated waters, etc. (44). By R. White & Sons, Ltd., 143 Neate Street, Camberwell, London, S.E. 319,620.

"Phizzo"; for mineral and aërated waters, etc. (44). By Duckworth & Co., Chester Road, Manchester. 320,823.

"Malaceïne": for perfumery and toilet-soaps (48). By Steinfels Frères, 29 Rue Massue, Vincennes, Seine. 318,618.

"Zora Wrinkline," and device of heart in circle; for a skin-preparation (48). By Ella Lawrence, 7 Devonport Road, London, W. 316,935.

"Antib"; for a hair-preparation (48). By C. E. Smith, 59 Gascony Avenue, Hampstead, London, N.W. 319,625.

"Vio-Foam": for perfumery, etc. (48). By T. F. Bristow & Co., Ltd., 13 St. James's Walk, Clerkenwell, London, E.C. 319,659.

Patent Specifications.

Printed copies of the following specifications are on sale (8d. each) at the Patent Office, 25 Southampton Buildings, London, W.C., a fortnight after the notice of acceptance has appeared in the "Official Journal" (Patents) of the given dates. Persons desirous of opposing the grant of a patent must do so in the prescribed form within two months from the date of the "Journal" in which the notice appeared.

Specifications Accepted.

April 6, 1910.

Artificial Para Rubber. 28,450/08. Blum.

Evaporating-apparatus. 7,154/09. Wiegand.

Thermometers. 10,964/09. Cambridge Scientific Instrument Co.

Hernia-appliances. 18,231/09. Brook.

Concentrated Perfume Receptacle. 20,327/09. Warrick.

Tooth-brush. 24,692/09. Pap.

Manufacture of Alkali Carbonates. 27,126/09. Wetter (J. D. Riedel Akt.-Ges.).

Nasal Deformity Apparatus. 28,252/09. Ray.

April 13, 1910.

Removing Labels. 8,226/09. Barratt & Holcroft.

Preventing Condensation on Glass Surfaces. 13,812/09. Hogan.

April 20, 1910.

Ophthalmometer. 13,878/09. Banks.

Lactic-acid Bacterial Preparations. 17,649/09. Dodd, Allen & Hanburys, Ltd., and Smith.

Pharmaceutical Compound. 17,928/09. Newton (Farbenfabriken vorm. F. Bayer & Co.).

Carboxy-alkyl-salicylosalicylic Acids. 24,009/09. Einhorn.

Milk-fermentation Process. 26,007/09. Cabanné.

April 27, 1910.

Surgical-bandage Application. 1,100/09. Titherley.

Nutritive and Flavouring Substance. 9,440/09. Ikeda & Suzuki.

*Bacilli Culture and Preservation. 11,933/09. Marshall & Smith.

Emulsifier, Process and Emulsion. 14,119/09. Mills (Arabol Mfg. Co.)

Glycerin-extraction. 14,750/09. Lever Bros. and Edwards.

Metal Bottles for Delivering Small Drops or Spray. 16,902/09. Anastasi.

Embrocation. 18,830/09. Morgan.

Lactic Bacteria in Grains. 21,173/09. Löloff.

Curative Agents. 24,505/09. Schering.

Swansdown for Powder-puffs. 1,740/09. Endres.

Specifications Open to Public before Acceptance.

Anhydrous Caustic Potash. 29,494/09. Chemische Fabrik Griesheim-Elektron.

Separation of Nitrogen from Air. 7,175 and 7,305/09. Soc. L'Air Liquide.

Permanent Radio-active Glass. 14,761 and 14,762/09. Farjas.

Medical Plaster. 6,393/10. Guttmann.

Production of Aliphatic Hydrocarbons. 8,100/10 Bayer.

Sulphuric-acid Manufacture. 23,442/09. Chemische Fabrik Griesheim-Elektron.

* This is the patent under which Massolettes and Massograins are made.

Pharmaceutical Society.

NORTH BRITISH BRANCH.

A MEETING of the Executive was held at 36 York Place, Edinburgh, on Friday, April 22, Mr. J. P. Gilmour (Chairman) presiding. At the outset he referred to the severe illness of Mr. J. W. Sutherland (Glasgow), who was, said the Chairman, in a rather precarious state. He felt sure the Executive sympathised with Mr. Sutherland. He also mentioned the death of Mr. James Paterson (Aberdeen), and it was agreed to make appropriate reference to the matter in the minutes. The Chairman then welcomed Mr. James Lennox (Glasgow), who had been co-opted to the vacancy in the Executive caused by the resignation of Mr. W. S. Glass. Mr. Lennox expressed his thanks for the confidence that had been placed in him.

Dumfries Poison-licences.

The Executive then went into committee to consider a communication from the Pharmaceutical Council, with which was enclosed a request by the Privy Council inviting them to give their observations on a representation by Dumfries Town Council with regard to statements which had been made to the Privy Council by the Society regarding the granting of poison-licences by the Town Council. A draft statement was read by the Assistant Secretary (Mr. Hill) in answer to the representations of the Town Council, and after full discussion it was remitted, on the motion of Dr. Coull, to the Chairman and Mr. Hill to put the statement as briefly as possible, and to send it to the Council of the Society with a suggestion that in the event of the Privy Council not being satisfied with it, they should be invited to conduct an inquiry on the facts themselves. It was also remitted to the Chairman, Vice-Chairman, and Assistant Secretary to draft the

Annual Report of the Executive

and send it to the Council in London. The date of the next election of the Executive was fixed for June 17. The Chairman stated that he had received a letter from the National Association for the Prevention of Consumption asking him to act on the committee as a representative of the Pharmaceutical Society at the annual meeting and conference to be held in Edinburgh from July 2 to 5 next. On the motion of Mr. Giles, the Chairman was authorised to act on the committee.

DAY MEETING.

The sixth and closing scientific meeting of the session was held after the Executive meeting, Mr. Gilmour again presiding. The first paper was by Mr. John Lothian, Ph.C., Glasgow, on the

Solubility of Magnesium-Ammonium Sulphate.

Solutions of ammonium-bromide and magnesium-sulphate, when mixed, yield under certain conditions a crystalline precipitate of magnesium-ammonium sulphate—$Mg(NH_4)_2(SO_4)_2,6H_2O$ [see *C. & D.* 1909, I., 124 and 338]. The author has ascertained that at 59° F. (15° C.) 24.08 grams of this salt dissolves in 100 grams of water, and at 60° F. 24.81 grams dissolves in 100 grams of water. These figures being considerably at variance with those given in Seidell's "Solubilities," he determined the solubilities of the salt per 100 grams of water at temperatures between 34° and 81° F., and his results with those interpolated by Seidell are subjoined :

Temp. F.	Lothian found	Seidell interpolated
34°	18.22 grams	13.25 grams
41°	20.72 ,,	16.25 ,,
50°	22.48 ,,	18.56 ,,
59°	24.08 ,,	—
60°	24.81 ,,	22.50 ,,
70°	28.26 ,,	26.00 ,,
81°	33.33 ,,	29.75 ,,

Mr. D. B. Dott, Mr. J. R. Hill, and the Chairman briefly commented upon this communication, and Mr. Lothian having replied,

Mr. Thomas Dunlop, Ph.C., read

Notes on Some B.P. Ointments.

The object of these was to place on record what he had found to give in practice satisfactory results where the present products of the official formulæ are not all that can be desired.

Paraffin Ointment tends to become lumpy during cooling, with a corresponding want of plasticity. The addition of a trace of castor oil results in a homogeneous and plastic product, and is veritably "oil on troubled water." The *modus operandi* is: Melt the paraffins (6 oz. and 14 oz.) in an enamelled bowl of suitable size. While cooling, stir constantly with a bone spatula, and at the same time add 1 drachm of castor oil. When the critical stage is passed there is no difficulty in attaining the desired result.

Boric-acid Ointment.—Even with an improved basis, the incorporation of a dry powder with this ointment is easier said than done. If the powder be previously triturated in a mortar with olive oil in the proportion of 10 minims to 1 oz. its power of resistance is overcome, so that when the powder is sprinkled into the melted basis the heat thins the oil, and the powder is set free in a condition which enables it to diffuse itself. The result is a cream-like mixture with no enveloped masses of dry powder, which, when stirred till cold, yields an ideal ointment. This treatment applies to all the ointments in which insoluble powders in notable quantity form a part, and its effect is best seen in those that are bulky, such as zinc oxide. One is at a loss to know why one ointment is officially ordered to be made in the cold while another is ordered to be made with a melted basis.

Carbolic-acid Ointment.—The addition of glycerin to this ointment in the 1898 B.P. to remedy crystallisation of the carbolic acid introduced a new trouble, as it does not combine satisfactorily with the paraffin ointment. By using half the quantity of glycerin and substituting an equivalent proportion of wool-fat the "weeping" is entirely removed, and a plastic ointment produced.

Mercuric-nitrate Ointment (Diluted).—The author pointed out prior to 1898 that soft paraffin *per se* is a bad diluent of this ointment, and although in the present B.P. the amount of soft paraffin is doubled, separation continues at summer temperatures. If kept for any time, the ointment gradually darkens to a brownish black. The author finds that the following mixture keeps well:

Mercuric-nitrate ointment ...	1 oz.
Wool-fat (hydrous)	1 oz.
Soft paraffin (yellow)	3 oz.

Melt the wool-fat and soft paraffin with a gentle heat, remove from the source of heat, add the mercuric-nitrate ointment, and stir together while cooling.

Ointment of Rose-water.—The addition of 1 oz. of wool-fat to the official quantities of this ointment produces a much more permanent combination, while the ointment has a much better consistence. It is also an advantage to have the rose-water slightly warmed. The author prefers finishing in the ointment-jar by stirring. The product then sets solid, and is not unduly exposed to the air.

Discussion.

Mr. D. Gilmour (Dunfermline) said these very practical notes could appeal to every pharmacist. Rose-water ointment could be made beautifully if it was gone about in the right way. Young men were not trained to take time in the making of ointments as they were thirty years ago. Beautiful rose-water ointment could be made if they continued switching long enough. In the proportions given, the rose-water could be all absorbed if it was not plunged in all at once.

Mr. Archibald Currie (Edinburgh) said he had always regarded paraffin ointment as containing too big a proportion of paraffin One that he had found suited very much better was to reduce the proportion of hard paraffin to 2 oz. to 7 oz. in winter and 2½ oz. to 7 oz. in summer. These made a plastic ointment. He very much doubted the advisability of adding lanoline or any soluble fatty basis to an ointment required for local application such as carbolic-acid ointment and citrine ointment. There was always danger of the ointment becoming absorbed, and that he did not think was desirable. With regard to cold-cream he had always found the introduction of a little lanoline an improvement, and a little borax whitened it. A softer ointment results.

Mr. Dott said it was quite recognised that paraffin ointment of the Pharmacopœia had too much hard paraffin in it, and too high a melting-point, and he had no doubt that would be remedied in the new Pharmacopœia.

Mr. C. Kerr (Dundee) said he had never bought a pound of ointment all the time he had been in business, but had always made it himself. He preferred Lister's formula for boric ointment to the B.P. one, and the public were much better satisfied with it.

Mr. Forret thought it was a good idea to triturate these bulky powders with olive oil. As an apprentice he was trained to do that. It made a magnificent ointment, which was not possible with the B.P. Mr. Gilmour had spoken very highly of the B.P. cold-cream ointment, but he asked if cold-cream was official.

Mr. Gilmour said he did not use the words "cold-cream," but "rose-water ointment."

Mr. Forret said he was never asked for rose-water ointment, but for cold-cream.

Mr. Lothian was strongly inclined to agree with Mr. Gilmour that they ought to adhere to the Pharmacopœia, if for no other reason than to secure uniformity. The defective manipulation carried out by young pharmaceutical students of the present day was deplorable, and indicated that the art was decaying. He thought there was a strong case for making more use of lanoline in the B.P.

Mr. Anderson Russell (Greenock) said it was perfectly true that they could make a satisfactory rose-water ointment for the time being; but he thought that after keeping it a short time they would find it begin to separate, and could not be again combined. By adding lanoline it did not separate.

Dr. Coull, Mr. Crombie, and Mr. Lennox having spoken, Mr. Dunlop replied, and the Chairman wound up the discussion. He then called upon Mr. D. B. Dott, Ph.C., F.I.C., to read a paper on

B.P. as a Standard under the Sale of Food and Drugs Acts.

At the outset he said he had always held the opinion that the Pharmacopœia was not a standard under these Acts, and he cited the conclusion of Mr. E. J. Parry, in the *C. & D.*, April 2, p. 512, in support of that opinion. Parenthetically he wished to say that he had not that profound veneration for legal decisions which was apparently expected. Carlyle regarded it as one of the misfortunes of the House of Lords that it was so largely recruited from the "horsehair wigs," a view with which he (Mr. Dott) had considerable sympathy. When one noticed a most important and final decision given by a majority of only three to two (the most intelligent Judge being in the minority), one could not help feeling that the decision might very easily have been the reverse. The Judges would often be the better for a scientific assessor on the bench, who would sometimes prevent them from being lost in a legal entanglement, and from using their acumen in a perverse process of misdirected argument. The Pharmacopœia was a standard in a certain sense, just as any other published authority might be taken as a standard, and no doubt its official origin gave it a special claim to be accepted as evidence. If a purchaser asked for a B.P. article or the circumstances of the sale clearly indicated that a B.P. article was intended, then it was obviously an offence to supply something else. That must be taken with the limitation that the Pharmacopœia was not correct, and failure to comply with an impracticable standard could not be considered an offence. On the other hand, if the purchaser asked for something under a B.P. name, the circumstances in connection with which showed clearly that he wanted something else, it was absurd to say that an offence was committed by giving him what he wanted. Mr. Dott gave examples in illustration of this opinion. He did not agree with some of Mr. Parry's inferences. The contention in support of which Hudson *v.* Bridge was quoted—that wherever no specific tests are given in the Pharmacopœia for a drug no standard exists, therefore no conviction can follow—was an extreme statement of the case. What they should probably say was that when the Pharmacopœia prescribes certain quantities to be used, but gives no standard for a preparation, and one or more of the ingredients is liable to be partially lost in the process of preparation or in the keeping, then no conviction can follow the sale of such a preparation unless the deficiency is so great as to indicate fraud or gross carelessness in making. And in deciding the question of fraud or gross carelessness the evidence (if available) of the person who made the article shall be considered. There was a vast difference between selling liniment of camphor which has lost 2 or 3 per cent. of its camphor and supplying a preparation which is 60 per cent. deficient. One has to judge a case on its merits, not according to some pedantic rule. He did not agree with Mr. Parry when he said of the first of the two groups into which he divided medicaments of the Pharmacopœia—preparations not being original drugs—that "the substances included in this group to be the articles known in commerce under their respective names must correspond with the prescriptions of the British Pharmacopœia, as it is practically impossible to show that there is any other commercial standard." Because it is held that laudanum must contain the official percentage of morphine—a convenient if not a very logical decision—it by no means follows that the apparent rule is universally applicable. If in a particular district an article differing from that of the Pharmacopœia is expected to be supplied, though under a B.P. name, the purchaser should get what he wants. He believed it was once held that if a man asked for belladonna plaster he must get the B.P. preparation, even though he explained that he did not want that kind. Such a decision is almost grotesque. He quite admitted that in ninety-nine cases out of a hundred the B.P. standard would be supplied, because there is a reasonable and convenient assumption that the purchaser desired that quality. As regards the second group of substances—original drugs not being mixtures—Mr. Parry is clear that they may be sold even although they do not conform to all the official tests. He quite agreed as to the general propositions, but perhaps one would need to be careful how he stated it; for instance, if a man asked for ipecacuanha-root, could he be properly supplied with Cartagena? or if for podophyllum, could he be supplied with the Emodi? Would it be permissible to supply artificial camphor having an appreciably different smell and differing perceptibly in purity from the natural? Would it be fair to the purchaser? Mr. Parry has great faith in the B.P. being declared the standard for drugs under the Acts provided it were revised by a committee containing representatives of such bodies as the Institute of Chemistry, the Society of Public Analysts, and possibly others. But what guarantee would there be that the views of those gentlemen, even when they agreed, would prevail? At present it was quite open to any society to send their opinions, expressed as strongly as they pleased, to the Pharmacopœia Committee for consideration. He very much doubted whether anything would be gained by the proposed additions, though personally he had no objections. There was a tendency even now to too many finical tests. In the next revision care should be taken not to introduce superfluous tests, or over-exacting standards, which are only a source of trouble and of no benefit to the users. It is reasonable to say that bicarbonate of soda must not contain more than 1 in 30,000 of metallic impurity, but to apply the same standard to strychnine would be absurd. One had to consider the dose as well as the probable contaminations in fixing a standard of purity. The tests of the Pharmacopœia are not intended to attain chemical purity, but to ensure, as far as possible, that the preparations have the proper medicinal activity and value. The next B.P. will no doubt contain a monograph on malt extract. He did not believe—and he had high medical authority for his opinion—that the medicinal value of malt extract depends on its diastase at all. It is only worth its place because of its special nutrient and fattening properties, especially when combined with cod-liver oil. A high diastasic standard should, therefore, not be insisted on, if, indeed, it should be mentioned at all. What they wanted was not new standards or stricter standards, but a more rational method of deciding doubtful cases. He adhered to the view expressed some years ago that before a prosecution takes place the analyst's report should be submitted to some independent authority, who should decide whether there was *prima facie* evidence for a prosecution. But apart from that, and from any legal objections, in every case where the defendant admits the accuracy of the analyst's certificate, it should be remitted to a board of experts to decide whether the facts disclosed really con-

stitute any ground on which proceedings should be taken, and the decision of the Board on this question should be final. The Board should also have power to publish notices stating that after a certain date the sale of a particular quality of a substance will be illegal. While it is necessary to protect the public it is also necessary to protect the retailer, who is generally sufficiently harassed without being exposed to superfluous prosecution.

DISCUSSION.

Dr. Coull said that when he was younger he used to think the Pharmacopœia should certainly be adopted as a standard, but the older and more experienced he became the more inclined he was to modify that opinion. For a drug like laudanum he thought it would be very dangerous if preparations of different strengths were sold in different parts of the country. He was inclined to think with Mr. Dott that each case should be discussed on its merits, and that the Pharmacopœia should not be taken without any qualification as a standard.

Mr. Anderson Russell, Mr. A. Currie, Mr. Lothian, and Mr. Hill also spoke. The last-named said that the Pharmacopœia Committee or the General Medical Council should distinctly declare the purpose of issuing the Pharmacopœia. If there was to be a standard, the Board of Trade should appoint a committee of experts to draw up standards both for foods and drugs to be adopted in the administration of these Acts.

Mr. Dott replied, and, on the motion of the Chairman, votes of thanks were given to the authors of the papers.

At the Afternoon Conference,

which was private, Mr. Wm. Giles presided, and a discussion took place on "Questions Arising out of the Poisons and Pharmacy Act, 1908, and other Matters of Interest to Pharmacists." Mr. Martin Meldrum, Ph.C., read a paper on "The New Schedule of Poisons," and this and several other points were discussed by the members present. Mr. W. L. Currie (Vice-President of the Society) and Mr. David Gilmour (member of Council) addressed the meeting in explanation of the various points raised. On the motion of Mr. J. P. Gilmour a vote of thanks was accorded to the Chairman.

Association Affairs.

Brief Records.

Irish Chemists' Assistants' Association.—A meeting of the committee of the Belfast Branch was held in the rooms, Victoria Square, Belfast, on April 27, Mr. G. W. Camlin, L.P.S.I., in the chair. Mr. A. B. Morris, Ph.C. (Tate's Medical Hall), was co-opted on the committee for the ensuing year.

St. Bartholomew's Hospital was visited on April 21 by the members of the Chemists' Assistants' Association and Public Pharmacists' Association, as well as students from various London Schools of Pharmacy. The large company, after partaking of light refreshments, were taken on a tour of inspection of the dispensaries and laboratories, under the guidance of Mr. J. E. Langford Moore and his staff. An illustrated description of the ideal conditions which obtain for dispensing medicines at "Bart's" has already appeared in these columns (*C. & D.*, 1903, II., p. 141). Intense interest was taken in the pharmaceutical operations in progress, the laboratory being in full working order.

North-East Lancashire Association.—At the meeting on April 26 held at Blackburn, Mr. R. Lord Gifford addressed the members regarding the coming election of members of Council of the Pharmaceutical Society. During his (Mr. Gifford's) nine years on the Council he had advocated the preservation of individual rights obtained by examination, and the appointment of an organising secretary to carry out this policy. He withdrew his opposition to the Poisons and Pharmacy Bill on the understanding that the conditions of granting poison-licences would be rigidly adhered to and rules effectively protected. The meeting resolved unanimously to support Mr. Gifford's candidature. Mr. Highton was appointed Secretary in place of Mr. John Rennie, who has left the town.

Doncaster Association of Pharmacists.—The annual meeting was held at the Albany Hotel on Wednesday, April 20, Mr. M. H. Stiles in the chair. There were also present Messrs. F. Jackson, F. Brooke, W. E. Plant, S. Fish, J. C. Marr, F. W. Playford, H. W. Shaw, and the Hon. Secretary (Mr. Harry W. Stiles). The election of officers resulted as follows: President, Mr. M. H. Stiles, F.R.M.S.; Secretary and Treasurer, Mr. H. W. Stiles; committee, Messrs. W. E. Plant, J. C. Marr, and H. W. Shaw. The President read a short paper on "Photo-Micrography." He showed a home-made camera attached to one of Watson's microscopes, and described in detail the construction of this, drawing attention to the importance and value of the lighting power. Several photo-micrographs were handed round for inspection.

Society of Chemist-Opticians.—A Council-meeting was held at St. Bride Institute, Ludgate Circus, London, E.C., on April 27. There were present Mr. S. W. Woolley (in the chair), Mr. Rex Blanchford, Mr. F. S. Horsey, Mr. C. J. G. Bunker (Hon. Treasurer), and Mr. J. Harcombe Cuff (Hon. Secretary). The Secretary reported that he had received for the library copies of the calendars of the Pharmaceutical Society of Great Britain and the Pharmaceutical Society of Ireland. The following members were elected: Mr. G. W. Gray (London), Mr. E. M. Morris (Kidwelly), Mr. L. M. Parry (Liverpool), Mr. T. D. Sneath (Grimsby), and Mr. J. W. Tattersall (Accrington). The annual meeting was fixed for May 11 at the Chemists' Exhibition, Royal Horticultural Hall, Westminster. After the meeting Mr. Lionel Laurance will give an address entitled "Myopia." The draft annual report was approved, and the auditors presented a signed copy of the accounts for the year 1909.

Leicester Chemists' Association. — A meeting was held at the Turkey Café, Leicester, on April 19, Mr. Burford (President) in the chair. Mr. Smith, of Shepshed, was elected a member. A discussion then took place regarding the practice of bill-distributors and representatives of proprietors of non-protected proprietary articles, such as Doan's Pills, Williams's Pink Pills, etc., asking pharmacists for slip-labels. It was decided to recommend the trade not to supply labels to anyone whose goods are not protected. A discussion then arose *re* the practice of some firms canvassing towns from house to house and asking pharmacists to take a certain quantity of goods, allowing 10*s.* or 1*l.* for window-show, and guaranteeing to sell 5*l.* worth of the goods out of every 10*l.* worth bought. It was pointed out that this 5*l.* worth is sold at retail value, whereas the 10*l.* worth is bought at wholesale price. Thus when the 5*l.* worth is sold the pharmacist still has 7*l.* or 8*l.* worth of the article unsold. Mr. Marfitt and others strongly objected to this method of doing business, and urged the trade to set a firm face against such methods.

York Chemists' Association.—The annual general meeting was held in the Old George Hotel on April 20. There were present Messrs. W. Dewhurst (President), W. P. Saville, F. C. Heys, F. A. Newey, J. A. Lupton, G. E. Woodhouse, W. Sowray, M. F. Burgin, and T. C. Atkinson (Hon. Secretary). The Secretary read his report of the past year's work, which mentioned the work that had been done in trying to convince the local Licensing Authorities that the needs of the public are already well enough served by the local chemists, without granting licences to seedsmen and others for the sale of agricultural and horticultural poisons. The Association's efforts were, however, to no purpose. The Treasurer's report showed a balance in hand of 19*l.* 3*s.* 6*d.*, against 14*l.* 19*s.* last year. The election of officers resulted as follows: *President*, Mr. G. E. Woodhouse; *Treasurer*, Mr. J. A. Lupton; *Hon. Secretary*, Mr. T. C. Atkinson; *Committee*, Messrs. T. E. Batty, M. F. Burgin, W. Dewhurst, F. C. Hey, F. A. Newey, W. P. Saville, W. Sowray, and G. E. Walker; *Auditor*, Mr. H. Chapman. Votes of thanks concluded the meeting.

Northampton Pharmacists' Association.—The annual meeting of the above Association was held at the Black Boy Hotel on April 21. Mr. W. McKinnell was in the chair, and there were also present Mr. W. Gatehouse, Mr. Geo. Ingle, Mr. J. Flinton Harris, Mr. F. C. Ashford, Mr. H. Rolfe, Mr. Donald McKinnell, and Mr. Fred Cowdery (Hon. Secretary). In his annual report the Hon. Secretary gave a brief *résumé* of the progress and work of the Association during the past ten years, and mentioned that during the past seven years 30*l.* had been sent to the Benevolent Fund. The financial statement submitted showed a balance in hand of 8*l.* 2*s.* 9*d.* Mr. L. North was elected President in succession to Mr. Dennis, and Mr. Gatehouse was unanimously elected Vice-President. Mr. F. Cowdery was re-elected Hon. Secretary and Mr. F. C. Ashford Hon. Auditor. A most enjoyable dinner followed the meeting, about twenty sitting down. Mr. W. McKinnell presided, and Mr. F. C. Ashford proposed the toast of "The Pharmaceutical Society." Mr. McKinnell proposed the health of the new President, Mr. North, Mr. Ingle gave the toast of the Secretary, and Mr. Harris that of Mr. McKinnell.

Public Pharmacists and Dispensers' Association.—An exceptionally good gathering was present at the meeting of this Association at St. Bride Institute, London, E.C., on

April 27. Mr. T. H. W. Idris (President) occupied the chair, and among the numerous company of members and friends were Messrs. G. W. Udale, R. W. Lindsey, C. T. Allen, H. C. T. Gardner, Rutter, Drayton, S. Sayers, H. S. Wilks, J. Nicoll, Mansell, and Wright. The Chairman, in introducing Mr. F. W. Sayers, alluded to his wide and varied experience of pharmacy in London, Paris, and South Africa. Mr. Sayers, in his narrative of "Two Years of the Boer War," departed from the conventional lecture and treated his audience to an interesting exposition of the conditions under which a stretcher bearer company went through the Boer war, the story being leavened with humour and brightened by the details of actual experiences. We hope to return to the subject next week. The following resolution was proposed by Mr. R. W. Lindsey, seconded by Mr. Rutter, and carried unanimously:

In view of the possible changes in the Poor Law Service, we appeal to all pharmacists for their active support and interest of those pharmacists who are now engaged as public dispensers in the Poor-law service. In consideration of the public safety and the services rendered to the State in connection with the Poor-law Medical Service, the public safety, and the fact that the best of our Poor-law infirmaries are equal in clinical value to any of our general hospitals, we urge that the influence of pharmacists should be exercised in seeing that any change made shall increase the efficiency of the dispensing departments, and that rightful conditions shall be accorded to the public pharmacist.

In the Shadow of the Arsenal.

The annual dinner of the North Kent and District Pharmacists' Association was held at the "Royal Mortar" Hotel, Woolwich, on Wednesday evening, April 27. Although the "Mortar" in question had more to do with the staple industry of Woolwich than the familiar pharmaceutical utensil, still the coincidence was apt. Over forty were present, and Mr. A. Goldthorpe, of Plumstead (President), was supported by Mr. J. F. Harrington, the Mayor of Woolwich (Alderman W. J. Francis), Dr. H. A. D. Jowett, Mr. W. S. Glyn-Jones, Mr. A. E. Hobbs, Mr. Paget Matthews (Croydon), and Mr. T. H. Seed (West Ham). Among others present were Messrs. A. J. Wing (Woolwich), A. Stooke (New Brompton), E. Millhouse and R. T. Clarke (Gravesend), D. U. Still, A. W. Hanson (Sideup), Ashton (Idris & Co., Ltd.), Roberts (Allen & Hanburys, Ltd.), Presant (Sanger's), Phillips (Whinfield, Hora & Co.), and R. Feaver Clarke (Hon. Secretary).

After dinner and the loyal toast, the President proposed "The Pharmaceutical Society," suggesting that women pharmacists should be represented on the Pharmaceutical Council. Mr. Harrington, in his reply, defended the Council generally from accusations of undue repose. Referring to the Edwards case (*C. & D.*, April 23, p. 104), he repudiated the suggestion that the Council had ever hesitated to make a test-case of the trading-name question because so many of their own body traded under names other than their own. He had to confess that the decision in the Edwards case had been disappointing to the Council. He also referred to the dental case.

"The Local Association" was given by Mr. Glyn-Jones, who alluded to the Mercer case and the legislation necessary as a sequence, and said the House of Lords decision in the dentist's case showed conclusively that the Pharmaceutical Council were to have a very great difficulty in framing a clause to ensure that no kind of word used to indicate the particular nature of a business could not be used to describe that place of business. As regards trading-names, he (the speaker) had taken at haphazard a large town in England and had found that more than one-third of the chemists were in business under assumed names. That being the practice, it was very difficult for an advocate to convince the Courts that it should be changed.—Mr. R. Feaver Clarke replied.

In a humorous speech Mr. A. Stooke gave "Kindred Associations"; and Mr. A. E. Hobbs replied. Mr. A. J. Wing proposed "Our Guests and Visitors," the Mayor of Woolwich and Dr. Jowett replying. During the evening Mr. J. Pinto Nash gave a gramophone recital, and Mr. D. U. Roberts amused and amazed the company with a series of clever sleight-of-hand tricks.

Poisoning Cases.

Fourteen fatalities, including three misadventures, have been recorded from poisoning during the week.

A. B. C. Liniment.—A verdict of death by misadventure was returned at the inquiry into the death of Mary Viner Pollock (46), the wife of Mr. R. E. Pollock, K.C., who died through taking a quantity of aconite, belladonna, and chloroform liniment while under the influence of veronal.

Carbolic Acid.—A Birkenhead labourer named John Thomas prevailed upon a neighbour during a drinking-bout to fetch him some carbolic acid. He swallowed about half the contents of the bottle shortly afterwards, and died two hours later. "Suicide," said the jury.

Carbolic Acid and Spirit of Salt was taken with suicidal intent by David Mold at Chebsey, near Stone, owing to his love-troubles. He jumped into the river, but was rescued, and died later in the Stone Infirmary from the effects of the poison.

Liniment.—Henry Wilkinson, mechanic, Stanningley, died on the way to the Leeds Infirmary from the effects of drinking some rheumatic liniment in mistake for medicated wine.

Nitric Acid.—A two-year-old child named Archibald Tucker died at Dublin from the effects of nitric-acid poisoning. During the course of the inquest Godfrey Mooney (13) said he was accustomed to buy a half-pennyworth of nitric acid from Mr. J. H. Deakin, pharmaceutical chemist, 37 North Circular Road, Dublin, for his brother, who used it for chemical experiments. Witness had put the acid into a smaller unlabelled bottle, which he then gave to the deceased's brother, who left it on the top of a shed. The bottle he got from Mr. Deakin was a glass-stoppered one. He had bought the acid about six times, and there was always a label upon it. Ernest Tucker stated that Mooney left the bottle on the shed, a statement which Mooney, on being recalled, denied. Mr. Deakin deposed that he knew Mooney and his brother were studying chemistry, and he supplied the acid in small quantities, carefully labelled "Nitric Acid. Poison" and with his name and address. He never supplied more than a tablespoonful at a time, and warned the boy of its dangerous nature. He had complied wih the legal requirements. A Juror: Has he the power to sell to children? The Coroner: He has. Juror: He has more power to sell poison to children than a publican has to sell porter. Coroner: Apparently he has. It is a strangely worded Act. A verdict of death by misadventure was recorded.

Oxalic Acid, self-administered, caused the death of Ellen Evans (17), of Wilsdon, near Morecambe.

Potassium-cyanide poisoning was responsible for the death of George Arnemann (28), a German subject, at Forest Hill, London, S.E. The jury returned a verdict of "Suicide during temporary mental derangement."

Salt of Lemon was used for self-destruction by Florrie Annie Sutcliffe (35), landlady of the White Hart Inn, Soyland. At the inquest Mr. Thomas M. Sturdy, chemist and druggist, of Messrs. Sutcliffe & Co., Ripponden, deposed to supplying 2½ oz. of the poison. Essence of lemon was asked for at first, but later exchanged for salt of lemon. An open verdict was returned.

Silver Nitrate was taken in large quantity with fatal results by James Thomas Butterworth (28), the son of a Rochdale eyelet-manufacturer.

Spirit of Salt was used for suicidal purposes by Vladylaws Szolc (48), hairdresser, Finchley. It was stated at the inquest that deceased had been ruined in business by taking an active interest in politics.—Joseph Pitchforth died at Hoyle Mill, Barnsley, from the effects of taking poison, after announcing that he had murdered his sweetheart, Annie Quick (23). A bottle of spirit of salt was found near to the girl's dead body.—At Gravesend, Agnes Rosetta Wall ended her life by taking the same poison. At the inquest the Coroner referred to the desirability of scheduling spirit of salt.

Kind not Stated.—Harriet Williams, of Reading, poisoned herself at Simonsbath, Exmoor, by taking some poisonous tablets.

German Spirit Syndicate.—According to the "Berliner Tageblatt," negotiations are being carried on between the large consumers of spirit for manufacturing purposes and the Spirit Centrale, while attempts are also being made to include the existing syndicate of yeast makers in the combination. No definite results have taken place between the Yeast Syndicate and the "Centrale," although a meeting was held in Berlin on April 9; but negotiations between the large consumers of spirit and the "Centrale" are expected to be concluded in the course of this month. The whole object of these combinations is to raise the price of spirit to meet the increased taxation.

Trade Report and Market Review.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers stock the goods. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are obtained for selected qualities of natural products even in bulk quantities. Retail buyers cannot, therefore, for these and other reasons, expect to purchase at these prices.

42 Cannon Street, London, E.C., April 28.

BUSINESS conditions show no appreciable alteration from those previously ruling, and the movements in rices, with a few exceptions, are unimportant. Quick-lver is 5*s*. lower in view of much larger imports and ecreased exports. Mercurials are unaltered. Citric acid steady. Soda and potash prussiates have an easier ndency. Crude antimony is firm. Among drugs, buchu considerably dearer. Calumba and cubebs continue very arce. Cevadilla seed and guinea-grains are dearer. hinese galls are easier. Soudan acacia is unaltered. quorice-root is tending firmer for cut decorticated. nerican peppermint oil is talked higher on reports of op damage. Carnauba wax and wood oil are higher. mon and orange oils are offering at easier rates. In utside" articles indiarubber is lower, but shows a overy at the close. Shellac is quiet but steady. chin and Japan ginger are lower, but pepper has sub-ntially recovered from last week's decline. Turpentine learer and cotton-seed oil firm. The principal changes e been as follows :

Higher	Firmer	Easier	Lower
Buchu-leaves Carnauba wax Guinea-grains Fish-kernel oil Wood oil	Antimony Cevadilla-seed Pepper	Ammonia sulphate Canary-seed Cod-liver oil (Norw.) Galls (China) Potash prussiate Soda prussiate	Ginger (Cochin and Japan) Indiarubber Quicksilver

Cablegrams.

BERGEN, April 27.—The cod-fishing at Finmarken continues satisfactory as per my letter, and the market for fine non-congealing Lofoten oil is easier at the equivalent of 55*s*. 6*d*. per barrel c.i.f. London.

NEW YORK, April 28 : Business in drugs has improved. Opium is quiet and unaltered at $5.60 per lb. for druggist's. Cascara sagrada is firm at 7½c. per lb. Peppermint oil in tins is lower, at $1.90 per lb. Curaçao aloes is firm at 8½c. Copaiba balsam is steady at 40c. per lb. for Central and South American. Peru balsam is firm at 1.60; balsam tolu is steady at 20c. Ipecacuanha is irregular at $1.50 for Cartagena.

Heavy Chemicals.

Generally speaking, the condition of the heavy-chemical market remains much the same as lately reported. Prospects are brighter now as regards exports, and a heavier demand is being experienced in this branch, both on prompt and forward account. Home-trade demand, if anything, shows a slight increase, but it is not of material moment. Values generally rule on the steady side, and do not show much fluctuation.

ALKALI-PRODUCE.—Bleaching-powder is in better demand for home ports, and steady at 4*l*. 2*s*. 6*d*. to 4*l*. 7*s*. 6*d*. per ton for ftwood casks free on rails and 4*l*. 10*s*. to 4*l*. 15*s*. f.o.b. Caustic soda keeps moving well, and is maintained in price: 76 to 77 per cent., 11*l*. to 11*l*. 2*s*. 6*d*. ; 70 per cent., 10*l*. 5*s*. to 10*l*. 6*d*.; and 60 per cent., 9*l*. 5*s*. to 9*l*. 7*s*. 6*d*. per ton. Ammonia alkali, 58 per cent., 4*l*. to 4*l*. 5*s*. per ton in bags free on rails. Soda-crystals are in improving demand and steady at 52*s*. 6*d*. to 57*s*. 6*d*. per ton in bags free on rails; f.o.b. Tyne, 57*s*. 6*d*. to 62*s*. 6*d*. per ton; and f.o.b. Liverpool, 57*s*. 6*d*. to 62*s*. 6*d*. Bicarbonate of soda rules unchanged at 5*l*. to 6*l*. per ton f.o.b. Liverpool, according to packages, etc. Saltcake stands steady at late figure of 42*s*. 6*d*. per ton, and there has been a brisk demand on export account, which seems likely to continue. Chlorates of potash and soda, 3½*d*. to 3¾*d*. per lb. respectively, according to quantity, etc. Yellow prussiates of potash and soda are selling at lower prices, and the general request is better. Potash, 4¼*d*. to 4⅜*d*., and soda, 2¾*d*. to 2⅞*d*. Hyposulphite of soda is steady, and some qualities are in rather heavier demand: Ordinary crystals in casks, 5*l*. to 5*l*. 10*s*. per ton; deliveries in 1-cwt. kegs vary from 5*l*. 15*s*. to 7*l*. 15*s*. per ton, according to quality and quantity. Silicates of soda are in good average request both on home and export account: 140° Tw., 4*l*. 7*s*. 6*d*. to 4*l*. 17*s*. 6*d*.; 100° Tw., 3*l*. 17*s*. 6*d*. to 4*l*. 7*s*. 6*d*.; and 75° Tw., 3*l*. 10*s*. to 4*l*. per ton, according to quantity, quality, and destination.

SULPHATE OF AMMONIA.—The tone of this market is weak, and foreign orders are on the scarce side, so that stocks are creeping up somewhat. Home demand has been fair. Present nearest figures: Beckton prompt, 12*l*. 5*s*.; Beckton terms, 11*l*. 13*s*. 9*d*.; London, 11*l*. 13*s*. 9*d*.; Leith, 12*l*. 5*s*.; Hull, 12*l*.; and Liverpool, 12*l*. 2*s*. 6*d*.

Manchester Chemical-market.

April 26.

There has been a fairly steady feeling generally in heavy chemicals throughout the month, and the probabilities are that exports will again show a satisfactory increase as compared with the corresponding period of last year. Prices are about the same. White caustic soda, 70 per cent., is 9*l*. 17*s*. 6*d*. to 10*l*. 2*s*. 6*d*.; 60 per cent., 8*l*. 17*s*. 6*d*. to 9*l*. 2*s*. 6*d*. Bleaching-powder is in fairly good demand at 4*l*. 2*s*. 6*d*. to 4*l*. 7*s*. 6*d*. per ton on rails at works. Bicarbonate and saltcake have been quiet. Sulphate of copper shows a reduction on the month of 15*s*. to 20*s*. per ton, and, although the lower prices have caused more buying, still the continuous decline in the raw material is again creating a weaker feeling. The present figure is 18*l*. 10*s*. to 19*l*. per ton, best brands, delivered Manchester. Caustic and carbonate of potash has been in brisk inquiry throughout the month. Caustic is quoted 22*l*. to 22*l*. 10*s*. for 88-92 per cent., and 78-82 per cent., 20*l*. net for electrolytic; refined German carbonate, 90-92 per cent., 16*l*. 10*s*. per ton f.o.b.; and Russian, 16*l*. to 16*l*. 10*s*. per ton ex store Manchester. Formaldehyde in 1-cwt. basketed carboys or 3½-cwt. oak barrels, 40 per cent. (volume), 40*s*. per cwt. net weight f.o.r. Manchester, packages free. There is not much change in other articles. Castor oil is again dearer in sympathy with the advance in seed, and there does not appear to be much re-sale oil about. English first pressure is 30*l*. 10*s*. to 30*l*. 15*s*.; seconds, 1*l*. less; French first pressure, 32*l*. 5*s*.; seconds, 30*l*. 15*s*. f.o.b. Indian, good seconds Calcutta, in cases, 3½*d*. to 3⅝*d*. ex store. In glycerin the prospects are more hopeful, and 80-per-cent. crude is reported as "picking up." Distilled qualities are steadier also. In American cotton-seed soap there is nothing doing on spot, but of Italian green olive-oil soap the consumption is increasing, in spite of the advance, probably on account of the dearness of other sorts; 56-58 per cent. (when shipped) sells at 21*s*. to 21*s*. 6*d*. per cwt. ex store. In coal-tar products, speaking generally, there has been a rather slow feeling. Sulphate of ammonia is 1*s*. 3*d*. to 2*s*. 6*d*. per ton lower on the month. To-day's prices are 11*l*. 15*s*. to 11*l*. 16*s*. 3*d*. on rails Manchester. Carbolic acids and benzols remain steady. Pitch is in sellers' favour.

Continental Drug and Chemical Markets.

ACETIC ETHER.—The reduction which took place in January has given the article a more steady tendency, chiefly because prices are so depressed as to be unlikely to fall further. Competition is keeping the prices down, and there is no prospect of a rise until an understanding is arrived at between makers.

CARNAUBA WAX is showing a rising tendency. Large quantities have been handled recently, and in Liverpool also the stocks have been reduced considerably. Brazil is offering at m.250, whereas in Hamburg very little is to be had. The last quotations were first yellow, m.370; medium yellow, m.310; fatty and current grey, m.220 per 100 kilos.

Cocaine.—The reduction which took place at the end of March has led to an active demand. After makers had had to take up large quantities of crude prices rose, and to-day are higher in proportion than the salts. The fear that the latter will consequently rule still higher has led to a number of speculative purchases.

Citric Acid.—The present situation is regarded as considerably steadier. The Camera is keeping up the value of the raw material, and is finding purchasers at the higher prices. Makers are therefore obliged to quote lead-free crystals at m.285 to m.290 per 100 kilos. The demand from consumers has also increased, and second-hands appear to have very little for disposal.

Copper Sulphate is easier, and the lower quotations which have lasted for some time make it necessary for holders to realise. According to the last reports, the metal is also lower; production is showing an increase, while there is a decrease in consumption. The present quotations for copper sulphate are m.37.50 to m. 38 per 100 kilos. ex warehouse.

Jalap.—First arrivals of new crop have been offered on the Hamburg market, m.225 and m.250 per 100 kilos. for manufacturing qualities. Purchases are only undertaken when necessary, as it is anticipated that the new arrivals will further depress prices.

London Markets.

Acid, Citric.—Quiet, but steady, at from 1*s.* 4*d.* to 1*s.* 4½*d.* per lb.

Aloes.—There is a fair inquiry for good liver Curaçao, which is extremely scarce, 60*s.* being asked, and up to 75*s.* for fine. New York is also firm, with offers at 42*s.* c.i.f. for quality as it rises. The peculiarity of last year's Curaçao aloes is that the bulk have remained black instead of turning livery. Several cases of Zanzibar in skins have been sold since the auction. 64 packages of Cape have arrived from Mossel Bay.

Ammoniacum.—About 12 bags of good quality will be offered in sale next week.

Aniseed is unchanged at 24*s.* to 25*s.* per cwt. for ordinary to good Russian, and 37*s.* 6*d.* for Spanish.

Antimony.—Business has been done at 16*s.* 6*d.* per cwt. for crude on the spot. It is stated that owing to the riots at Changsha several merchants may be unable to deliver their contracts.

Asafetida.—About 50 cases new crop will be offered next week.

Balsam Tolu is steady at 1*s.* per lb. for good hard.

Benzoin.—Sumatra has been in fair demand since the auctions, some 60 cases having been sold at prices ranging from 5*l.* 5*s.* to 7*l.* 10*s.* Thirty cases have arrived this week.

Borax.—English refined of best make is quoted 16*l.* per ton for crystals, and 17*l.* for powdered. English refined *boric acid* is 25*l.* for crystals and 27*l.* for powder; the value of Tuscany (guaranteed not under 82 per cent.) is about 15*s.* 9*d.* to 16*s.* per cwt.

Buchu.—There has been a little excitement in this article, owing to the fact that buyers for the Continent, U.S.A., etc., are more plentiful than sellers. As the principal holders here are unable to replace their purchases except at a considerable advance, they are indifferent sellers, and it is impossible to name a definite price at the moment in view of their unwillingness to part with stocks. The nominal price of good round green is now 3*s.* per lb., and from 2*s.* 6*d.* to 2*s.* 9*d.* has been paid for about a dozen bales, but very little business is now possible owing to spot scarcity. Cables to hand from several Cape Town exporters state that there is nothing on offer.

Calabar Beans.—In Hamburg 7*d.* per lb. is quoted.

Calumba has been scarce both here and on the Continent for some months past; second-hands quote 37*s.* 6*d.* on the spot for a limited quantity of small washed sorts, and for shipment 35*s.* c.i.f. is quoted for at least half-ton lots.

Camphor (Refined).—Sales of 2½ lb. slabs have been made at 1*s.* 6*d.* c.i.f. for April-May shipment. Spot is quoted 1*s.* 6½*d.*, 1*s.* 7*d.* and 1*s.* 7½*d.* for slabs, ounce and quarters respectively.

Canary-seed is dull and easier at 42*s.* per quarter for Turkish and common Morocco, but good and fine qualities of the latter are steady at 47*s.* to 55*s.*, and Spanish is unchanged at 60*s.* to 75*s.*, according to quality.

Caraway-seed is steady at 28*s.* 6*d.* to 30*s.* per cwt. for ordinary to good Dutch on the spot.

Cascara Sagrada.—The sailer *Anne de Bretagne* has brought 1,559 sacks from San Francisco, and the *Strathgryfe* 503 sacks also from San Francisco. The recent firm tone is maintained, nothing being obtainable in London under 35*s.* to 36*s.*; from New York 37*s.* 6*d.* c.i.f. is quoted, but for shipment from the Pacific Coast 38*s.* to 39*s.* c.i.f. is wanted.

Cevadilla Seed.—Small stocks have led holders to advance their prices to 45*s.* per cwt. c.i.f.

Chillies.—At auction 148 bales Mombasa were bought in at from 45*s.* to 47*s.* 6*d.* for fair, and 135 bags of good red Japan at 50*s.*

Cloves.—At auction five cases fine Penang were bought in at 1*s.* 8*d.*, other bought-in lots including 160 bales Zanzibar and ten cases of Java. Privately Zanzibar are dull and unchanged, with a small business, including June-August delivery at 5*d.*, and August-October at 5 1/16*d.* For arrival there are sellers of September-November shipment at 5*d.* c.i.f. d/w.

Cochineal.—Sales of Peruvian have been made in Liverpool at 1*s.* per lb.

Copaiba.—Sales of genuine Maranham of direct importation have been made at 1*s.* 11*d.* per lb. in barrels.

Coriander-seed is selling at recent quotations, common Morocco at 8*s.* 9*d.* to 9*s.* 3*d.*, fair at 9*s.* 9*d.* to 10*s.* 3*d.* and good at 10*s.* 6*d.* per cwt. English is quoted 25*s.* per cwt. for good quality of 1908 crop; the price is high owing to last year's crop being of very poor quality.

Cubebs continue extremely scarce. Hamburg asks 185 for a ten-bag lot, and on the spot a little is held at extreme prices.

Cumin-seed is unchanged at 32*s.* to 35*s.* per cwt. for ordinary to fair Morocco, and 40*s.* for Malta.

Dragon's-blood.—Three more cases good reboiled lump have arrived. They will sell readily.

Fennel-seed.—German is quoted at the high figure of 82*s.* 6*d.*, and for small green Moravian 35*s.* c.i.f. is asked in at least ton-lots.

Fenugreek-seed is offering at 11*s.* per cwt. on the spot for good Morocco.

Galls.—Chinese are easier, with sales at 41*s.* 6*d.* c.i.f. for April-June steamer, but 42*s.* is since asked.

Gambier.—The sales include 100 bags of cubes on the spot at 38*s.* per cwt.

Gamboge is inquired for, but nothing is available in first hands; a parcel of Siam pipe is on the way.

Ginger.—At auction 431 bags Japan offered, and the bulk sold without reserve at a decline of from 2*s.* to 2*s.* 6*d.*, mainly 36*s.* 6*d.* to 40*s.* 6*d.* being paid for limed and mouldy. Of Cochin and Calicut practically 1,050 packages were offered, and 170 sold at a decline of 6*d.* to 1*s.*, the sales including dullish washed Cochin at 45*s.* 6*d.* and brown tips at [illegible]. Bold rough Calicut was bought in at 55*s.* and selected A Calicut at 95*s.* African was bought in at from 45*s.* to [illegible].

Guinea Grains are scarce and dearer, with small sales at 95*s.* per cwt. in Liverpool. Hamburg quotes 95*s.* c.i.f. London for a small parcel.

Gum Arabic.—Soudan gum is unaltered, with small sales at 32*s.* 6*d.* for half hard to 34*s.* for softish yellowish sorts; for arrival the tone is firm, 29*s.* 6*d.* c.i.f. being asked. East Indian, No. 1 Ghatti is offered at 34*s.* c.i.f., and scented Aden is held for 30*s.* per cwt. Senegal is steady at 32*s.* 6*d.* spot and 30*s.* 6*d.* f.o.b. Bordeaux.

Ignatius Beans are obtainable from Hamburg at 1*s.* [illegible]*d.* per lb. c.i.f. terms.

Indiarubber.—Hard fine Para has declined about [illegible]*d.* per lb. since the close of last week, the quotation for April-May and May-June being 11*s.* 7*d.* per lb. nominally, as compared with 12*s.* 1*d.* on Friday last. Demand has been extremely quiet.

Jalap is offering at lower rates, from 9*d.* to 1*s.* per lb. c.i.f. being quoted as to test.

Jaborandi.—A parcel of 136 bales in store in Liverpool ld without reserve at from 9*s.* 6*d.* to 19*s.* per cwt.

Lime-juice.—Concentrated West Indian is firm at *l.* 15*s.* Eleven casks *citrate of lime* have arrived from emerara. West Indian raw *lime-juice* is quoted 1*s.* to 1*d.* per gal. for very fair to good. English raw *lemon-ice* is worth 1*s.* 2*d.* to 1*s.* 3*d.* per gal.

Linseed continues scarce and dear at 70*s.* per quarter.

Liquorice-root.—Cut decorticated is practically un-ainable on the spot, and to arrive 44*s.* is quoted, market ding upwards.

Menthol.—Firm. Small sales of Kobayashi have been de at 8*s.* 6*d.*, and sellers of Suzuki ask 8*s.* 5*d.*, with vers at 8*s.* 4*d.*; for May-July shipment business has been e at 8*s.* 1½*d.* c.i.f. for Suzuki.

Mercurials are unaltered. Calomel is quoted 3*s.* 1½*d.*, rosive sublimate 2*s.* 9½*d.*, red precipitate 3*s.* 5*d.*, white cipitate 3*s.* 5*d.*, yellow oxide 3*s.* 7½*d.*, and mercury h chalk 1*s.* 4*d.* per lb.

Milk-sugar.—In rather more demand recently, with dered offering at 40*s.* to 42*s.* 6*d.* per cwt. as to make.

Musk.—Business has been done in a recent arrival of quin blue pod, Pile I., at 67*s.* 6*d.* per oz.; old style is anged at from 52*s.* 6*d.* to 54*s.* per oz. as to quality.

Nutmegs.—Quiet. West Indian, of which 100 packages ed, mostly sold at rather easier rates at auction.

Oil, Aniseed Star, is steady at 4*s.* 6*d.* per lb. on the s , and for shipment the higher price of 4*s.* 5*d.* c.i.f. is ed.

Oil, Citronella.—Small sales of Ceylon in drums have b made on the spot at 1*s.* per lb., and cases are quoted 1s ½*d.*

Oil, Cod-liver.—In London practically no business is rted; agents have reduced their quotations and offer at om 105*s.* to 110*s.* per barrel c.i.f.

r Bergen correspondent writes on April 25 that the Lo ten cod-fishery is now definitely closed, with an output of .8 million cod, yielding 11,600 barrels of cod-liver oil, ag st 16.8 million cod and 17,200 barrels of oil in 1909, and 13. million cod and 17,300 barrels of oil in 1908. At Finm en the fishing is very satisfactory, and in some places on th ast coast even abundant. It seems also as if the western pla s will give good results when the weather becomes cal r and the supply of bait sufficient. The results of all our co sheries up to date are reported as follow:

	1908	1909	1910
Ca of cod (millions)	35.4	40.8	36.7
Yi of cod-liver oil (barrels) ...	41,300	36,000	25,600
Yi of liver for "raw" oils (hect.)	13,700	15,000	11,300

T tendency on the market is easier, and finest non-congea g Lofoten oil is offered at 107*s.* 6*d.* per barrel c.i.f. (see cab for latest price), but buyers are holding back, and only sm lots have changed hands. The exports from Bergen up date amount to 3,480 barrels, against 4,850 barrels at the me date of last year.

O , Geranium.—Finest French is offered at 30*s.* per lb.

O , Lemon.—Business at primary sources (according to a lermo advice of April 23) continues of a retail cha ter. Reports from several consuming places state tha tocks are gradually becoming smaller; buyers, howeve hold off in anticipation of getting in at the lowest poss le prices, but it should not be forgotten that the revi l in demand will probably coincide with the end of the essing season, which, owing to the shortage in the crop will be earlier than usual this year. From 3*s.* 3*d.* to 3*s.* 6 per lb. c.i.f. is quoted.

O Lemongrass.—Quiet at 3*d.* per oz. spot, and at 2¼*d.* i.f. for distant shipment.

O Orange.—A Sicilian advice dated April 23 states that e Custom House difficulties in U.S.A. have had more influ ce than was expected, the lack of demand having led ak holders to ease prices again. Sweet is quoted 5*s.* 9 and bitter 6*s.* per lb. c.i.f.

O Peach Kernel, is 1*d.* per lb. dearer, 11*d.* being quot in cases.

O Peppermint.—The cold snap in the cotton-belt in the thern States of U.S.A. (which appear to have been exag rated) has given a fillip to the peppermint-oil market, it be g also said that frost has damaged the growing crops in Michigan, but the latter report has not been confirmed. Last week there were sellers of Wayne County oil at 7*s.* 10½*d.* to 8*s.*, but holders now ask 8*s.* for good brands. H.G.H. is 10*s.* 4½*d.* to 10*s.* 6*d.* per lb. Japanese is quoted 5*s.* 2*d.* to 5*s.* 3*d.* spot for Suzuki and Kobayashi.

Oils (Fixed).—*Linseed* on balance shows a decline of about 9*d.*, pipes on the spot closing at 38*s.* 6*d.* and 38*s.* 3*d.* in barrels. *Cottonseed* is firm at 31*s.* 6*d.* for crude on the spot, 32*s.* 3*d.* for ordinary pale refined, and 36*s.* for sweet refined. *Soya* is slightly firmer at 32*s.* 3*d.* for naked on the spot, and *Coconut* is unaltered, Ceylon offering at 45*s.* 6*d.* and Cochin at 50*s.*, both spot. *Rape* is steady and unaltered at 28*s.* 6*d.* spot, at 30*s.* 6*d.* for English refined in casks, and 28*s.* for Jamba. *Turpentine* has advanced from 6*d.* to 9*d.* on the week, American on the spot closing at from 44*s.* to 44*s.* 3*d.* *Petroleum* remains nominal at previous quotations.

Olibanum.—Good qualities are still scarce and wanted. Sales of ordinary siftings have been made at 16*s.* per cwt.

Opium is firm but unaltered, there being no business to report. As previously mentioned stocks are small, but demand is equally so, and no resumption of buying is expected until the new crop is on the market in July-August. Spot quotations are from 16*s.* to 16*s.* 3*d.* for Turkey druggists, 16*s.* 6*d.* to 17*s.* for soft shipping, and 19*s.* to 20*s.* for Persian.

Writing on April 16, a Smyrna correspondent observes that there would have been many more sales this week had holders not shown themselves so exacting, and the business was effected with difficulty, holders being exceedingly firm. Altogether 18 cases changed hands, comprising six cases new extra Karahissar t.q. at pts. 151 to 154, or equal to 16*s.* 2*d.* to 16*s.* 9*d.*; two cases old ditto at pts. 141 to 144, or equal to 15*s.* 2*d.* to 15*s.* 5*d.*; and ten cases old and new common and mixed qualities at from pts. 80 to 120, or from 8*s.* 9*d.* to 12*s.* 10*d.* per lb. c.i.f. European ports. Market closed firm with buyers and a rising tendency. Arrivals, 1,929 cases, against 2,047 cases. Writing on April 23, another Smyrna correspondent states that the sales amount to 103 cases, at from pts. 148 to 150, or 16*s.* 4*d.* to 16*s.* 6*d.* c.i.f., for "extra choice" old and new crop; a case of Yerli "extra" realised 17*s.* 9*d.* The approach of the new crop causes holders to show some eagerness to sell, and, in view of the continued demand, it is practically certain that stocks will be again much reduced by the end of May. Arrivals, 1,938 cases, against 2,050 cases.

Pepper (Black).—At auction 37 bags fair Ceylon were bought in at 4*d.* Privately the market is steady, fair Singapore offering at $4\frac{1}{16}$*d.*, and for arrival there has been a substantial recovery, sales including 75 tons July-September shipment at $3\frac{17}{32}$*d.* to $3\frac{19}{32}$*d.*, August-October at $3\frac{5}{8}$*d.* to $3\frac{11}{16}$*d.* c.i.f. d/w and sellers.

Pepper (White).—At auction 77 bags Singapore were bought in at 7*d.*, and 66 bags fine Muntok at 7¾*d.* Privately the market is steady at 6¾*d.* for fair Singapore; to arrive prices are firmer, the sales to arrive including April-June shipment at $6\frac{5}{16}$*d.*, June-August at 6⅜*d.*, July-September, August-October, and September-November at 6⅜*d.* to $6\frac{7}{16}$*d.* c.i.f. d/w.

Pimento.—Quiet. At auction 80 bags fair were bought in at 2⅜*d.* per lb. Privately sellers quote from 19*s.* 9*d.* to 20*s.* per cwt. c.i.f.

Quicksilver.—The principal importer reduced his price by 5*s.* per bottle on Monday to 9*l.*, and in second-hands 8*l.* 17*s.* is quoted. The arrivals include 5,000 flasks from Seville.

Quillaia.—Quiet, with retail sales; in Liverpool 25*l.* 15*s.* to 27*l.* 10*s.* per ton is quoted; arrivals in that port comprise 235 bales from Valparaiso and 129 bales from Talcahuano.

Quinine continues quiet, second-hands offering good brands of German sulphate at 7*d.*, Amsterdam at 6¾*d.*, and Java at 6½*d.* per oz.

During the two months ending February the exports of "quinine, quinine salts and combinations" from Germany were as follows: 1908, 26,000 kilos.; 1909, 23,300 kilos.; 1910, 39,200 kilos.

Rhatany continues in short supply, and prices are well maintained at 5¾*d.* per lb. c.i.f. for at least 5-cwt lots.

Rhubarb.—Small sales of rough round High-dried have been made at 6¾*d.*, and flat ditto at 1*s.* per lb.

Sarsaparilla.—Grey Jamaica is inquired for, and resales have been made at 1*d.* over auction rates. About 25

bales red and yellow native have arrived, but no grey or Lima.

Shellac remains quiet but steady on the basis of 65*s.* to 66*s.* for fair free T.N. orange. Good and fine orange is quoted from 70*s.* to 85*s.*, A.C. Garnet 67*s.* spot, and 62*s.* 6*d.* c.i.f. for arrival; G.A.L. is 55*s.* spot and 57*s.* c.i.f.; for arrival T.N. for May-June shipment is nominal at 67*s.* c.i.f. Futures are steady, the sales including May at 65*s.* to 66*s.*, August 68*s.*, and October 69*s.*

Strophanthus.—Good green new crop sells at 1*s.* 7*d.* per lb. c.i.f. for at least 2 cwt. lots.

Turmeric.—Firm. Small sales of dull to good bright Madras finger have been made at from 20*s.* to 25*s.* per cwt.; Bengal is quoted 20*s.* spot, and May-July (new crop) at 16*s.* 9*d.* c.i.f.

Uva Ursi is entirely wanting in Hamburg, and for May shipment green leaves of the new crop are offered at 17*s.* per cwt. c.i.f.

Wax, Carnauba, is much dearer and the market is said to be bare of stock, up to 120*s.* per cwt. having been paid for waxy grey.

Wood Oil has continued in active demand, with spot sales of Hankow up to 38*s.*, May-July at 32*s.* to 33*s.*, and September-December 32*s.* per cwt.

Amsterdam (Cinchona Auctions).

At Amsterdam to-day (Thursday) 13,625 packages sold at an average unit of 3.51c. per half-kilo, against 3.14c. paid at the auction in March.

World's Vanilla Crops.

Mr. Hermann Mayer Senior sends us the following statistics of the 1909-10 vanilla-production:

	Tons
Seychelles	10
Bourbon	35
Mexican	70
Comores, Mayotte, etc.	40
Madagascar and Nossi-Bé	25
Mauritius	2
Ceylon, Java, Fiji, Zanzibar, etc.	10
Guadeloupe and Martinique	15
Tahiti	180
Total (say about)	390

This quantity falls 110 tons short of the 1908-9 crop, and, as Tahiti shows an increase of 40 tons, the actual deficiency in the finer qualities totals 150 tons, or 40 per cent. on the previous year's yield, which was of full average extent. Prices during the past twelve months have moved in accord with the statistical position, showing an improvement of 30 to 40 per cent. for all varieties except Tahiti; these have profited by the shortage of all other sorts and maintained their value, notwithstanding the larger returns. Only unimportant balances remain in the Colonies, and, as new crops are unlikely to be landed in quantity before November next, statistically the position appears exceptionally sound.

Olive Oil.

A Liverpool firm of olive-oil brokers, in the course of their monthly report, state that the receipts of oil at shipping ports have continued comparatively light, and have readily been absorbed. Recent reports of severe frosts in Spain have caused some nervousness to the "trade" generally, and any disaster to the Spanish crop this season would be a general calamity, and might send prices up to the high figures reached last year. The latest information, as the result of constant communication with shippers, is to the effect that the blossoming of the olive-tree is only now commencing, and, though there will be some damage from the frosts and from drought, no judgment can be formed until the end of April. Meanwhile the market has been affected to some extent, and Malaga and Seville oils have advanced, while shippers are reluctant to commit themselves to sales to any important extent, and prefer to wait until the outlook is clearer. The Candia and Levant markets have also shown a tendency to advance quite independently of the movement in Spain, but, should the Spanish crop meet with an unfavourable blossoming season, it would promptly react in all other markets. For the foregoing reasons buyers (says the report) would be well advised to look ahead, and those who have not already done so should secure a substantial proportion of their future requirements. It is unlikely, even given a favourable Spanish crop, that prices can go materially lower, while, on the other hand, there is the possibility that they may go much higher

Correspondence

Memoranda for Correspondents.

All communications must be accompanied by the names and addresses of the writers, otherwise they are not recorded.

Queries by subscribers on dispensing, legal, and miscellaneous subjects pertaining to pharmacy and its allied trades are replied to in these columns, if they are of general interest.

Letters submitted to the Editor for publication (if suitable) should be written on one side of the paper only. Their publication in the "C. & D." does not imply our agreement with the opinions of the writers.

Liniments containing Poisons.

Sir,—A Halifax chemist has been requested by a firm of solicitors to hand over 5*l.* fine and 5*s.* costs for selling 1*d.* worth of laudanum and 1*d.* worth of soap liniment in an ordinary 1-oz. vial handed over the counter by the customer. To-day a customer has handed to me over my counter a 10-oz. medicine bottle, graduated, containing the remains of a liniment dispensed at the Halifax Infirmary, with an ordinary white slip label on, "The Liniment." The request was for 1*d.* worth of laudanum and 2*d.* worth of hartshorn and oil. Needless to say he did not get in the bottle tendered. How long, Sir, are we chemists to be prosecuted (nay persecuted) for selling enough poison to poison a fly, while doctors and infirmaries can scatter their poisonous liniments broadcast without let or hindrance?

I am, faithfully yours,

Halifax, April 25. Gibson Dixon

[As intimated by us last week (p. 614), the Privy Council has decided not to proceed this Session with legislation extending to medical men the regulations regarding the keeping and selling of poisons at present applicable only to those registered under the Pharmacy Act, and to companies and firms carrying on the business of chemists and druggists in accordance with the 1908 Act. Mr. Dixon's remarks suggest that it will be necessary also to extend the provisions to poisons dispensed or sold anywhere, so that hospitals also may be covered.—Editor *C. & D.*]

Prices of Proprietaries.

Sir,—I beg to submit you a copy of the resolution passed by the Huddersfield and District Chemists' Association, which has been forwarded to the P.A.T.A., and will be submitted to the Council at their next meeting in July.

> Owing to the very large increase in the number of proprietary articles offered for sale to the public, and the fact that they now form the greater bulk of the sales of members of the P.A.T.A., the time has come when the Association should seriously consider the advisability of a revision of its prices, with the object of increasing the gross profit on all articles controlled by the Association.

Personally I am strongly of opinion that profits on proprietary articles are not sufficient to pay expenses of handling, not to mention the interest on capital locked up in same, and as the number of proprietary articles increases, so do the capital and the sales of drugs decrease, hence it appears quite reasonable to demand an adequate return for one's labour, capital employed, and expenses incurred in the handling of these goods. Sales of simple drugs also drugs in the form of family recipes and pharmacists own manufactured preparations, constitute the backbone of a pharmacist's business and of his living, and all these are on the decrease. Hence it is imperative that a revision of the P.A.T.A. prices should be made to counteract these changing factors, which are of such vital importance to pharmacists. There is one more point I wish to mention, and that is the P.A.T.A. does not get the support it deserves, and I think it is the duty of every pharmacist to support the Association. I should be pleased to have the opinions of other local associations, through their secretaries, on this interesting subject.

Yours faithfully,

J. H. Cooper, Hon. Secretary,
Huddersfield and District Chemists' Association.
62 Westbourne Road, Marsh, Huddersfield.

Soda-water Manufacture for the Chemist.

Sir,—We have read with astonishment "Phenacetin's" letter in the *C. & D.* of April 2. Twenty per cent. for depreciation of syphons is very excessive, and if the result of actual experience shows an entire lack of system in the handling and checking of syphons. Anyone with a busy trade who keeps his syphons in constant use and sells at anything round about 3*d.* a syphon will find the percentage of cost for renewals to turn over very moderate, provided, of course, that he is running the sale of syphons on proper business lines. Again, "Phenacetin's" sweeping assertion that all machines on automatic principles are of no value commercially to manufacture soda water is a wild statement which is without foundation and is in direct opposition to the experiences of chemists all over the country with the "Consol" patent automatic combined aërator and syphon-filler. The figure of 200*l.* to 300*l.*, which is represented as the sum required to embark in soda-water manufacture, is on a par with the other statements—greatly exaggerated. With a capital of 100*l.* a chemist can equip himself with the very latest and most up-to-date plant and three or four gross of the best-quality syphons. There can be no question as to the profitable nature of the syphon trade if energetically and intelligently handled. Everything, of course, depends on the chemist's inclinations and ability to attend carefully to the proper manufacture of the various kinds of minerals, etc., and his capacity for pushing the sale of same.

Yours faithfully,
Consol Automatic Aerators, Ltd.

Paul Street, Finsbury, E.C.

Portsmouth Pharmacists' Association.

Sir,—In last week's *C. & D.* you report a very pleasant gathering of our Association, but, quite inadvertently I am sure, your correspondent states that I "deplored the poor quality . . . of the candidates for the profession." The only way in which I referred to this was in deprecation of such a remark by a previous speaker.

Yours faithfully,
Portsmouth, April 26. W. T. Gorfett.

Virol Window-shows.

Sir,—I have carefully read Mr. Benson's explanation of the Virol prize windows. I should like to point out the similarity of my window and the fourth-prize window; the difference, as far as I can make out, is in the legends. Allowing for that item making it better than mine, it is still a surprise to me that I drop six points below. You, Mr. Editor, having seen the photo of my window and the result of personal abilities on making display, will see that I will want to know my failure. Personal skill after "thought and study" (their own words used in advertisement) has had little or no weight in adjudication of prizes in my opinion.

Yours faithfully,
Verb. Sap. (151/12).

Dispensing Notes.

Many dispensing problems are dealt with in "The Art of Dispensing," but we are always pleased to get fresh ones for solution, and to receive the opinions of readers on the points discussed.

Opinions Wanted.

What would have been the best way to deal with the following scrip? The prescriber could not be spoken to, and as it is the mixture is a very unpleasant one:

Potass. bicarb.	ʒij.
Calcii chloridi	ʒij.
Liq. trinitrini	♏xvj.
Tinct. digitalis	♏LX.
Tinct. nucis vom.	♏LX.
Spt. chlorof.	ʒiij.
Liq. arsenicalis	♏L.
Infus. gentian. ad	℥viij.

℥ss. ter in die post cibos.

Doctors are curious folk. A day or two after the above came in, a mixture with double the B.P. maximum dose of tinct. digitalis was ordered. Doctor's attention drawn to it. "Put it in," said he, "*the B.P. is nothing to go by.*"—*Yorky.* (121/).

Legal Queries.

Consult the legal information in "The Chemists' and Druggists Diary," 1910 before writing about your difficulty.

Z. S. (149/7).—We see no reason why "Smith" may not do as you say, but you do not tell us if he is a registered chemist or not; if so, and he carries on the Blanktown shop as a branch of his business as a chemist and druggist, he has the disability of the 1908 Act (qualified management) to get over.

Aberdeen (150/65).—Your embrocation-label makes the preparation liable to medicine-stamp duty, because it recommends it for rheumatism and various other ailments. If, however, it is prepared according to a published formula, and that fact is stated on the label or on a supplementary label, it will be exempt from duty.

Denstruian (8/37).—Major MacMahon, F.R.S., of the Standard Weights and Measures Office, Old Palace Yard, London, S.W., informed us last year that chemists may use scales not so sensitive as Class B for heavy articles, such as linseed meal, Epsom salts, and so on, sold by the pound. French scales to weigh 1 lb. and upwards may therefore be used by you, although not so sensitive as Class B.

Doctor (148/45).—Section 16 of the Pharmacy Act, 1868, says: "Nothing hereinbefore contained shall extend to or interfere with the business of a legally qualified apothecary." If such an apothecary keeps an open shop in which poisons are sold and dispensed, he need not necessarily dispense or sell the poisons himself, but by the Apothecaries Act his assistant must be certified as such by the Apothecaries' Society, and may sell and dispense poisons for his employer without personal liability under the Pharmacy Acts.

Grange (146/2).—Quinine and steel wine, described as a "Nerve Tonic," comes within the charge of medicine-stamp duty, but if "Quinine and Steel Wine" is a correct designation of the medicine, it is exempt as to "known, admitted, and approved remedies" (presuming that the disclosure of the ingredients is complete). But is the preparation a medicine or a wine? The law in regard to the sale of wines is stated in the *C. & D. Diary*, p. 239. It does not follow that because quinine-wine, B.P., is allowed to be sold without a wine-licence that your wine will also be permitted; in fact, the sanction of the Board of Customs and Excise should be obtained for the sale as medicine of any preparation made with wine which is not mentioned on p. 239.

Miscellaneous Inquiries.

As we do not in this section repeat information given during the past twelve months, inquirers should refer to the copies mentioned. Back numbers for the past five years can generally be obtained from our office at the published prices.

A. S. L. (146/73).—How to Become a Doctor.—For full particulars of the curriculum and examinations see our last Educational Number, August 15, 1909. From the time that you pass the Preliminary examination and register as a medical student at least five academic years must elapse before you can obtain your diploma.

Antifebrin (143/22). — Phosphorised Quinine-and-Iron Tonic ("P.F.," 1):

Quin. sulph.	ʒiss.
Acid. phosph. dil.	ʒx.
Tinct. aurant.	ʒx.
Inf. calumb. conc.	ʒx.
Glycerin.	ʒiij.
Liq. chiratæ conc.	ʒx.
Ferri ammon. citr.	ʒiv.
Aq. chloroformi ad	℥Lxxij.

Mix in above order, keep forty-eight hours and filter.

R. T. (116/13).—The impure well-water would require a systematic analysis before the nature of the dirt-particles could be determined. The water should not be used for drinking-purposes.

F. E. J. (143/20).—Hydrogen Peroxide as Milk-preservative.—Several references are made to the use of peroxide of hydrogen as a milk-preserver in Thresh and Porter's "Preservatives in Food and Food-examination" (Churchill). The method was patented by Dr. Budde, of Copenhagen, in 1904, but there are references to the use of hydrogen peroxide as a food-preservative in the "Ann. Chim. Analyt.," 1901, and "Zeits. Untersuch. Nahr. und Genussm.," 1902.

W. G. H. (123/26).—Tar Ointment.—The sample is a little softer than the B.P. ung. picis liq., which you could match it by adding a little soft paraffin to the official ointment.

C

J. R. H. (British Columbia) (124/70).—Shaving-lotion used freely on the skin before, during, and after shaving.—This is compounded on the following lines:

Bay rum	8 oz.
Glycerin	8 oz.
White heliotrope	4 oz.
Proof spirit	40 oz.
Rose-water	8 oz.

Mix.

Your sample has had the colour heightened by the addition of a trace of chlorophyll. The addition of a little menthol is an improvement.

J. H. M. (Cape Colony) (140/32).—Snuff Perfumes.—The scents used in the manufacture of snuff are otto of rose, oil of bergamot, orris-root, and lavender oil, or mixtures of these. The perfumes are added in alcoholic solution.

B. H. (119/2).—Antiseptic Floor-soap.—This is a liquid soap containing cresol and citronella oil. The sample could be matched as follows:

Household carbolic soap (red) ...	1 lb.
Potassium carbonate	2 oz.
Water	20 oz.
Crude cresol	2 oz.
Citronella oil	2 dr.
Spirit	q.s.

Cut up the soap into small pieces and heat with the water in which the potassium carbonate has been dissolved. Then add the perfume and cresol, and lastly sufficient spirit to make of the proper consistence.

A. W. P. (126/65).—Pile-ointment.—The sample seems to be ung. gallæ co. with a small proportion of camphor.

Quercus (133/8).—Face-cream.—The specimen you send is prepared with casein and zinc oxide, and is similar to the product of the formula No. IV. given in the *C. & D.*, April 17, 1909, p. 602.

D. F. (142/15).—Rheumatism-powder.—This appears to be acetyl-salicylic acid mixed with a little sugar and disguised with a trace of pulv. fœnugræci.

Yorkshire (148/46).—Ointment for Ringworm in Cattle.—This is red iodide-of-mercury ointment of about the strength ordered in the British Pharmacopœia.

Aq. Dest. (115/41).—Distilled-water Still.—We have found the Browne's still answer perfectly, our experience being confirmed by inquiries of a user. If allowed to run dry the still is injured. The makers would doubtless supply a still of extra stout material, and the interior could be silver-plated to avoid the possibility of metallic contamination.

H. O. L. (146/15).—Ink for Typewriter.—You will find references to this in the last index to the *C. & D.* If there are any new points you wish to raise, we will endeavour to answer them if you submit them.

Wilts (139/69).—Carbolic Equivalents of Disinfectants.—See *C. & D.*, December 11, 1909, p. 899.

Beeswax (146/29).—Chewing-gum.—See *C. & D.*, April 24, 1909, p. 661.

Nero (140/71).—Brass Lacquer.—The following is one of the recipes given in "Pharmaceutical Formulas":

Shellac	ʒiij.
Turmeric	ʒj.
Annatto	ʒij.
Saffron	ʒij.
Spirit	℥xvj.

Make a tincture of the drugs, filter, and in the filtrate dissolve the shellac. Again filter or strain.

This is applied to the heated brass, and the metal again heated to a high degree.

Corns (104/52).—The difference in the rate of solidification of the corn-cure is due to variation in the guncotton used for the collodion. The quantity of guncotton should be reduced.

J. S. (142/40).—Washing-powder for softening the water and bleaching linen.—These are generally varying mixtures of alkali, soap, and silicate of soda on the following lines:

Soda-crystals,	
Glauber's salt,	
Yellow soap, of each	28 lb.
Sodium carbonate	56 lb.
Sodium silicate	84 lb.
Water	4 gals.

The soap is cut up and boiled with the water, the soda-crystals and Glauber's salt added, and the boiling continued for twenty minutes. The sodium carbonate is next added, followed by a further period of boiling. Lastly the sodium silicate is added and the whole well stirred, dried, and powdered.

Booco (138/34).—We do not understand your inquiry. The bodies of motor-cars are generally painted and varnished.

P. D. R. (147/19).—Spiced-vinegar Essence:

Ol. pimentæ	ʒij.
Ol. caryoph.	ʒj.
Ol. myrist.	♏xv.
Tinct. capsici fort.	ʒij.
Ac. acetic., B.P.	ʒiv.
Ac. acetic. glacial. ad	℥viij.

Misce.

To make spiced vinegar mix one tablespoonful with a gallon of water.

Bell (124/34).—Metol-quinol Developer. — Metol and quinol, when mixed, form a less soluble compound, which cannot be dissolved in the proportion you give. See *C. & D.*, August 21, 1909, p. 349, for a good formula.

S. H. (140/65).—The Acid of Tomatoes has been the subject of differences of opinion. In the "American Journal of Pharmacy," 1872, McElhenie demonstrated the presence of citric, malic, and oxalic acids. It was on account of the supposed presence of oxalic acid that tomatoes were forbidden as food for persons suffering from gout or gravel (see Yeo's "Food in Health and Disease"). A more recent investigation by Briosi and Gigli showed the presence of 0.4 to 0.65 per cent. of citric acid and traces of tartaric acid, as well as an alkaloid, in the juice, but no oxalic acid. Cooking tomatoes does not affect the acid-contents, but reduces the carbohydrates (see Hutchison's "Food and the Principles of Dietetics").

F. R. (143/35).—(1) Straw-hat Dyes.—See *C. & D.*, October 2, 1909, p. 560, and April 11, 1908, p. 579. All the formulæ with which we are acquainted contain shellac and resin; it is the variation in the quantities that makes the difference between the bright and dull varnishes.

M. W. (147/36).—Chemical Dishorner.—Stick caustic potash is employed for preventing the growth of horns on young calves. The directions, which have not been given lately in the *C. & D.*, are as follows:

> Clip the hair from the top of the horn when the calf is from two to five days old. Slightly moisten the end of a stick of caustic potash with water (or moisten the top of the horn-bud), and rub the tip of each horn firmly with the potash for about a quarter of a minute or until a slight impression has been made on the centre of the horn. The horns should be treated in this way from two to four times at intervals of five minutes. If, during the interval of five minutes after one or more applications, a little blood appears in the centre of the horn, it will then only be necessary to give another very slight rubbing with the potash.

The sticks of caustic potash are rolled up in tinfoil, the end of the stick only being exposed. In this way the fingers of the operator are protected.

Our Retrospect.

(From the "C. & D.," April 14, 1860.)

The Lighting Problem.

A new gas for lighting has been recently discovered. It consists of superheated steam charged with coal tar, is produced with great rapidity, at a very low price, in any quantity, and is of a very rich quality. By analysis it is found to be composed of free oxygen, 1.8; oxide of carbon, 3; carbonic acid, 5.8; bicarburetted hydrogen, 17.8; and proto-carburetted hydrogen, 71.9. Compared with ordinary coal-gas, this artificial gas is found to contain nearly one-half less oxide of carbon, and twice as much bicarburetted hydrogen; its intrinsic value is therefore twice as great. Besides its composition proves that it is a very permanent mixture or combination, which remains intact for any distance it may be conducted. After being kept for five months in gasometers it exhibited no change and left no deposit. A generator capable of furnishing in four hours the gas necessary to light a city of 30,000 inhabitants, and to supply 3,000 burners is now in course of construction, so that its practical utility will soon be fairly tested. The entire absence of sulphureted hydrogen in this gas is not the least of its recommendations to careful trial.

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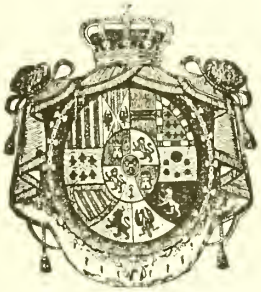

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Concentrated Crystal Soda. This sodium compound (sodium sesquicarbonate) is a variety of carbonate of soda in small silky crystals, containing much less water than ordinary washing soda; 1 lb. of it does the work of 2 lbs. of washing soda. Concentrated crystal soda is excellently suited for chemists' trade; they can make a speciality of it, and it is also suited for making water-softeners, brush powders, hair-wash powders, and the like.

Pure Alkali. 58 Degrees. A dry white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent carbonate of soda; is much used by glass, paper, and soap makers. The best alkali for soap powders and washing powders.

Pure Soda Crystals. **NOTE.—Proceedings have been taken by the Board of Trade against a person for selling as Soda Crystals an adulterated article, and the High Court has upheld the conviction. See the case of FOWLER *v.* CRIPPS, heard on 8th November, 1905, before a Divisional Court, consisting of the Lord Chief Justice, Mr. Justice Wills, and Mr. Justice Darling.**

Caustic Soda. Manufactured from pure Carbonate, and supplied of all degrees of strength.

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Hodgkinson, Prestons & King.
Hodgkinsons, Clarke & Ward.
Horner & Sons.
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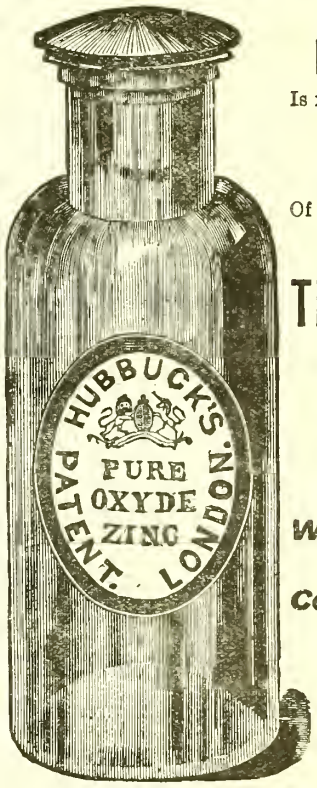

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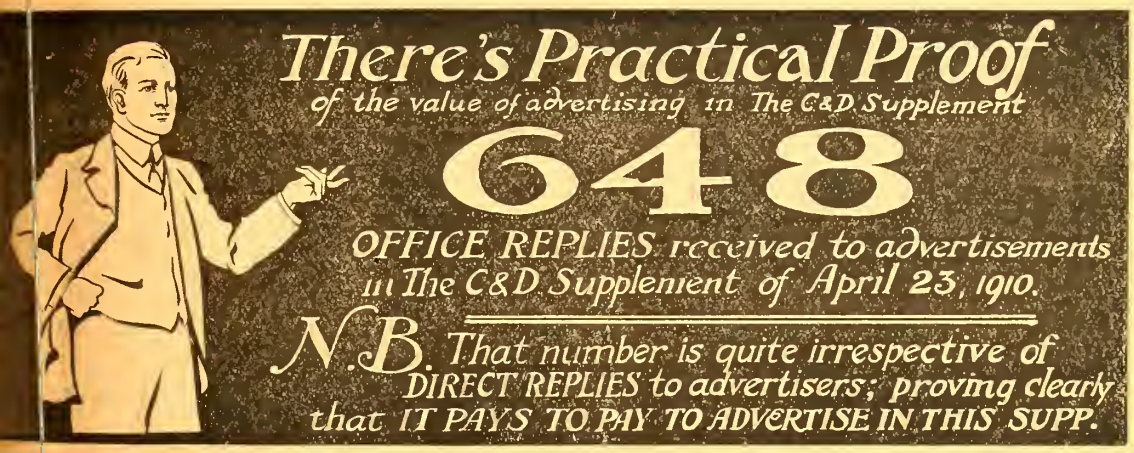
THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, APRIL 30, 1910.

A Copy of this Supplement is inserted in every Number issued of "The Chemist and Druggist."



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—LONDON, N.—Ready-money Business; returns between £950 and £1,000 per annum; *net profit* £276 (proof given); price £400; business can be sold.

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UPPER THAMES.—Retail and Dispensing Business; present returns about £700; attractive shop, double-fronted; excellent residence, garden; terms, lease and goodwill £50; stock and fixtures at fair valuation.

8.—DEVON.—Good town; lovely locality in close proximity to moorland and sea; returns between £750 and £800; *net profit* 25 *per cent.*; lock-up Pharmacy; rent £20; valuation terms entertained.

9.—HOME COUNTY.—Very old-established Business, Dispensing and Retail, with free licence for the sale of Wines and Spirits; returns about £1,700 per annum; *net profit* £400; price £850.

10.—GLOS. (Attractive Market Town).—Very pretty locality; returns £740, increasing; several good Proprietaries are included; roomy house; long lease; price £550.

11.—MIDLAND TOWN.—Good middle-class Retail Business; held by vendor many years; now retiring; returns £1,089; *gross profit* £450; double-fronted shop; excellent position; large house, garden; price £700.

12.—KENT COAST.—Good middle-class Business; Retail, Dispensing, and Prescribing; established 1840, and held by vendor 30 years; now retiring; returns over £1,000 per annum; rent £32; no immediate opposition; price £600, for which good value is offered.

13.—HANTS (Market Town).—Cash Retail and Family trade; returns exceed £500 yearly, which produce a *net income of* £164; scope for development; price £360.

14.—SUSSEX (Health Resort).—General Retail and Dispensing Business; established 1874; returns last year £890, increasing; *profit* (*net*) £220; terms, valuation, about £500.

Particulars of any of the above will be furnished on application.

N.B. NO CHARGE TO PURCHASERS.

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3.—YORKS.—Light Retail; returns approaching £1,500; no heavy trade done; no qualified opposition within a mile; good shop; further particulars to genuine buyers only upon application; about £600 required only.

4.—WORCS.—Good-class Light Retail; in nice neighbourhood; shop well fitted by first-class London experts; returns now about £600; under vendor's personal attention were £1,000, and could again; highly recommended; about £400 required.

5.—LINCS.—Light Country Retail; returns £320 and increasing; profitable; price £160.

6.—GLOS.—Light Family Retail, &c.; in nice country town; large double-fronted shop and a good house; established nearly a century; returns £750, at good profits; price £550.

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2.—LANCS. COAST.—High-class Retail and Dispensing Business; full prices obtained; easily worked; returns about £1,000; net profit £400; splendid position; scope for increase; price £1,000.

3.—KENT COAST.—Good-class Retail; in splendid central position; returns £950; unlimited scope; price £700 or offer.

4.—HANTS (Market Town).—Light Family Retail; returns over £500; good profits; low rent; heavily stocked; price £360.

5.—RICHMOND (near).—Good-class Retail; in pleasant locality; returns £650; excellent house; large handsome shop; price £50 and valuation.

6.—WEST LONDON.—Good-class Retail and Dispensing, in fine position; returns about £1,000; attractive shop; good house; price £750, or £50 and valuation.

7.—NORTH LONDON.—Cash Retail and Prescribing; returns £664; net profit £250; books properly kept; price only £275.

8.—EASTERN COUNTY.—Unopposed Light Country Retail, with valuable appointment; returns nearly £800; net profit £50, low rent; good house and shop; well stocked; price £450.

9.—SOUTH COAST.—Good-class Retail and Dispensing returns £750 to £800; gross profits £350; fine corner position; house, price simply valuation, about £450.

10.—MIDDLESEX (10 miles out).—Profitable Cash Retail and Prescribing; returns £500; excellent opening for Dentistry; rent £36; large house and garden. Price £175, of which £50 remain

11.—CHESHIRE.—High-class Dispensing and Retail returns £660, increasing; net profit £230; good house; price £450.

12.—WORCS.—Light Country Retail; neglected; returns £250 with doing £500; low rent; good house; price £175, or valuation.

13.—LONDON, S.W.—Middle-class Cash Retail Business returns £1,250; net profit £300; very good position; price £100 and valuation.

14.—LONDON, S.E.—Good-class Retail and Dispensing returns £650; net profit £190; low rent; price £280, about valuation.

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40 YEARS' PRACTICAL EXPERIENCE. See page 132 "C. & D. Diary," 19

BUSINESSES FOR DISPOSAL.

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ll the special attention of our Colonial subscribers to t opportunity this Supplement affords when they wish t lispose of their Businesses, of getting into touch with lly buyers either at home or in the Colonies.

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S ON-UNDER-LYNE.—Old-established Mixed Business; well ed and stocked; electric light; low rent; excellent oppor- or pushing young man; price £420, or near offer; advertiser the trade. Apply, "Senex" (15/21), Office of this Paper.

AS ANGLIA.—Good middle-class Business in small market n, with valuable appointments, for immediate Disposal ng illness of proprietor; good profits; splendid house, nice rde attractive locality; opening for Dentistry; cash buyers th ut £800 would find this a desirable investment, which only eds be seen. 16/37, Office of this Paper.

LOCESTER.—Returns £200; small stock at valuation; fittings a fixtures £50; rent £26; fine opening for steady man. H. arlto 8 High Street, Horncastle.

AN SHIRE; good position; large house; Wine Licence; returns 0; price £690. 16/26, Office of this Paper.

IV POOL.—Drug Stores; new business in Liverpool; nicely d; excellent prospects; returns increasing weekly; open- g fo entistry and Optics; present takings could be doubled by qual d man; shop situated in one of Liverpool's busiest thorough- ress; iee for cash £70; owner going to Canada to take up a ood ointment. 11/37, Office of this Paper.

IV POOL.—For Disposal, an old-established high-class Retail a Dispensing Business, with an exceedingly valuable amount f own Manufactured Specialities, having good sale and showing ndle profits; price £1,300. For particulars apply, by letter, to D.." Roxburgh Avenue, Aigburth Road, Liverpool.

ONN, W.—Well-established Business in populous thorough- fa; well-stocked shop; electric light throughout; good ofits use could be let off well; side door; opening for Dentistry nd Optics; good opportunity for up-to-date man; low price for ish purchaser. Apply, "Manager," 372 Harrow Road.

LONN, S.W.—Old-established Light Retail and Dispensing Business; returns average £570; nett profit, £200; ill-health ause sale; must be sold quickly. Apply, Harrison, Chemist, oodma, Ilford.

LONN, W.—Main road, near the Exhibition; newly opened Br h Business; returns increasing weekly; no near opposi- on; o ing for Dentistry and Optics; low rent; large double- ronted op and parlour; vendor's time required for own business; 150, o luation. Apply, 127 The Vale, Uxbridge Road, Acton.

OND (good-class suburb).—Valuation of stock and fixtures, ab £400, or first reasonable offer; 16 years established; main oroug re; good house; well-fitted shop; good position; plenty s pe r substantial increase. 16/33, Office of this Paper.

ANC ESTER.—To be Disposed of at once, good old-established Bu ess with Dental practice; same family over 60 years; quiries swered quickly; private house; every convenience. 14/31, ce of is Paper.

ONM THSHIRE.—Old-established Business; capable of great imp vement; central position in the town; late proprietor's e 83; t £23; net profits 50 per cent.; price £125; a bargain; y reas ble offer entertained. Apply, Mills, 24 St. Mary Street, epstow

OTTI HAM (suburb).—Profitable Retail, Prescribing, Dis- pen g Cash Business; corner position; returns £600; net 60t £2 elegant Pharmacy; bath, w.c.; good house; valuation best r for quick sale; must sell. "Dents" (15/22), Office this P er.

EAPO TOWN.—Excellent Light Retail Business for Disposal; ret s over £1,000; net profit £300; spacious shop hand- ely fi d and well stocked; house (private entrance), garden, enhou five good bedrooms, bath, etc.; rent £40; lease; ill- alth r on for selling; every investigation allowed. Apply, rst, B ke & Hirst, Ltd., Leeds.

OUTH TAFFS.—Mixed Cash Business for immediate Sale; plen of scope; good position; satisfactory reasons for dis- al; t over £500, which may be doubled; few Patents; suit alified an with a little spare capital; stock and fixtures only. 19, Offi of this Paper.

SOUTH WALES. — Old-established Mixed Business in populous Colliery district of Aberdare; Chemist, Fancy Dealer, and Wall Paper; returns average last ten years £1,300 per annum; lease of premises may be obtained; very reasonable rental; reason for disposing, death of principal. Full particulars from Mrs. Harris, 12 and 13 Cardiff Street, Aberdare.

SOUTH YORKSHIRE town; Light Retail Cash Business; returns £600; lease; no opposition; opening for Optics and Dentistry, convenient house; ill-health sole reason for disposal; price £330 or valuation. 16/35, Office of this Paper.

SURREY (within 7 miles of London Bridge).—Good-class residential neighbourhood; Light Family Retail and Dispensing Business; returns over £1,000, at excellent prices; low rent; good house; every modern convenience; price £725; stock and fixtures worth £600; owner retiring; fine chance for young man. Address, "Retire" (18/29), Office of this Paper.

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AGRICULTURAL and General Retail Business, with Optics; Midland market town; good district; returns over £1,000, increasing; no qualified opposition; good saleable stock; splendid opening for Dentistry; good house, premises and garden; rent low; price £550 cash; no agents. "E. W. F." (12/33), Office of this Paper.

CHEMIST; fashionable suburb of Liverpool: Cheshire side of Mersey; established 35 years; modern house; every convenience; low rent; rising neighbourhood; vendor's ill-health cause for selling; every investigation quoted, in confidence, from John Brown & Co., 34 South John Street, Liverpool.

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GENUINE bargain; leaving the trade; wanted, cash offer for well-stocked and fitted shop in North; returns over £600; few Patents sold; no Photographic; central corner position; lock-up shop; large warehouse. "Bargain" (16/18), Office of this Paper.

GOOD-CLASS Prescribing, Dispensing, Photographic, etc., Business; close to station in fashionable suburb; handsome double-fronted shop; well fitted and comfortable house; returns about £700; net profits £200; can be greatly increased and extended; chiefly ready money; price £550, inclusive; recommended by Mr. Broagham, Auctioneer, St. Margaret's-on-Thames.

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UNOPPOSED small Mixed Country Business, Drugs, Stationery, Optics; Extractor could make money; good house; rent £25; easily worked; expenses low; returns over £300; price £110; county Essex. 14/29, Office of this Paper.

UNOPPOSED; busy centre; established marketing thoroughfare, N.W.; near Lipton's, Home and Colonial, Fitch, Pearks', Sainsbury's; moderate outlay modernising shop, money well spent; and popular prices attracting surrounding dense population, substantial proportion first class; £45 (offer), providing quick sale; reason aged vendor's complete breakdown; Dentist co-operating (sub-tenancy or otherwise) would meet pressing want. 19/2, Office of this Paper.

BUSINESSES FOR DISPOSAL

(continued.)

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£275.—For immediate Disposal, a good medium-class Dispensing and Retail Business; in pleasant residential district of North London; returns about £700; net profit £170; good lease; corner shop, well fitted and stocked; nice house, with side entrance; no immediate opposition. 13/24, Office of this Paper.

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WANTED to Purchase, a really good Dispensing Bu Manchester or Suburbs or in Southport; no agents 12/30, Office of this Paper.

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WANTED, situation with gentleman about to ret business, with view to purchase; returns from £50 Office of this Paper.

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WANTED, by qualified Chemist, genuine Business, do turnover (£2,000 minimum); some local Wholesale or not objected to; country town preferred; prompt settl suitable concern. Particulars, in confidence, to "Statim, Backhouse & Co., Wholesale Chemists, Leeds.

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FIRST reasonable offer accepted for Hand Mineral Hayward & Tyler, consisting of Filter, 2 Carbonat Syphon, Cork-bottle and Turnover-bottle Fillers, abou Syphons and Cases, in addition bottles and usual accessor able Side-line for Chemist. Apply, "Minerals" (13/5) this Paper.

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FOR Sale, 120 strong, well-made Trays; duck bottom; 13½ in. by 1 in. outside; trays ¾ in. deep; suitable Health Salts, Powder, etc.; little used; sample Tray sent purchaser. 17/9, Office of this Paper.

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TO SAVE TROUBLE.

MANY correspondents answering advertisements in this Supplement enclose remittances to cover the cost of forwarding their letters to advertisers who prefer to be addressed c/o this Office. The Publisher desires to make it clear that this is quite superfluous, and perhaps this reminder will obviate the necessity of the frequent return by him of such remittances.

ANSWER IN TERMS OF THE ADVERTISEMENT AND

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BIRMINGHAM.—Qualified Assistant; able to take Branch; must be a good Salesman and Window- plicant please send full particulars as to age, height salary required, with photo, to Hedges & Sons, Phar mingham.

BOURNEMOUTH.—Wanted, Junior for Light Retail ing; state age, experience, salary required (in photo, which will be returned, Cumber, Chemist, W Bournemouth.

BRIGHTON.—Junior; shortly; outdoors; of gentlem ance and address: Photography. State salary re (150/13), Office of this Paper.

ILTH WELLS.—Junior Assistant wanted; accustomed to Mixed Country business; indoors; hours 8 to 8, Saturday 10; holiday weekly; no night or Sunday duty. Apply, giving full ulars as to salary, experience, references, &c., J. Ward, M.P.S., Wells.

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ANTED, immediatedly. at the District School at Hanwell, Attendant for Dispensary (with other duties) meancing salary 30s. per week. Must be fairly educated, a good n, and have had experience in Compounding Medicines. further particulars and list of duties apply personally to the al Officer, Central London District School, Hanwell, W., any ng between 10 A.M. and 1 P.M.

RTS.—Wanted, Junior or Improver; outdoors; easy hours. pply, with full particulars as to age, height, references, and required, and enclose photo, to Roberts, Chemist, Hemel stead.

AND.—Manager required for Light Retail and Dispensing; e with knowledge of Photography and Optics preferred; or Assistant qualification would suit. 14/40, Office of this

ESTER INFIRMARY.—Wanted, a Male Assistant Dispenser; ot over 30; Minor qualification; salary £100. Apply, not later ay 2, with copies of three recent testimonials, to the House or and Secretary, Leicester Infirmary.

INDUDNO.—Wanted, at once, qualified Assistant for the ason; outdoors; Dispensing and Light Retail. Apply, full particulars, age, salary required, etc., to Mercer, Pharmacist.

ON, N.—Qualified Assistant required for Dispensing, Preparations, and a little Counter-work; time off, one whole and f day alternate weeks. Please state age, experience, referand salary required, to Bishop & Vincent, 460 Holloway Road, N.

ON, N.E.—Wanted, an Assistant; about 22 to 24 years; unualified; one accustomed to good-class business; indoors; ole day off weekly; only those with good references need Apply personally or by letter, giving full particulars and g photo (to be returned) to H. Southall, 310 Hoe Street, nstow.

ON, S.W.—Wanted, immediately, a qualified, gentlemanly sistant; must be good Counterman; not over 35; strictly eady, and industrious. State age, height, experience, and quired (outdoors), enclose photo, Parker, c/o British Drug Graham Street, E.C.

ON, W.—Qualified Assistant with good Dispensing experice; 5 assistants kept; outdoors. Apply personally, or give ticulars of previous engagements, age, height, salary exand when disengaged, to Sharpe & Son, 34 High Street, Hill Gate.

ON, W.—Part-time Assistant wanted; full time allowed to end College. 175 Uxbridge Road, London, W.

ON, W.—Qualified Assistant wanted; accustomed to a first-ss Dispensing business; age about 25. Apply to S. W. Ord, Bullock & Co., 3 Hanover Street, Hanover Square, W.

ON, W.—Wanted, for May 9, smart Junior (indoors), about 21, accustomed to good-class Dispensing and Photographic. e, height, salary, and references, enclosing photo (to be , to H. Dixon, 1 Russell Gardens, Holland Road, Kensing-

N, W.—Qualified man, about 25 or 26, outdoors, immedi-. Apply personally, or if by letter give age, salary references, and enclose photograph, to R. A. Potts, 62 South treet, W.

N, W.—Qualified Assistant (22-3), for West-End Dispensing ness; outdoors; staff of 3. Apply by letter, enclosing d stating height, to Mr. F. Piper, 5 Alwyne Mansions, Road, Wimbledon.

N, W.C.—Qualified Assistant wanted; age about 25; inrs; state salary required and references, also height; no ork or Bank holidays. Apply to Wm. Challise, Chemist, s Street, Strand, W.C. Wanted on May 5, 1910.

N, S.W.—Wanted, an Assistant; must be a reliable Disr and good Counterman. Apply, The Sloane Pharmacy, Road, Sloane Square, S.W.

LONDON, N.W.—Part-time Assistant; comfortable home, board, lodging, time for study, and fair salary offered to gentlemanly man about 25; one accustomed to brisk Retail preferred. W. C. Tucker, Queen's Crescent, N.W.

LONDON, S.E.—Managing Assistant, not necessarily qualified, but must know his business; pushing man; good Salesman, and able to work up business; well up in Photography, Optics, and Minor Dentistry; comfortable berth for the right man; good references indispensable. State salary and commission required to "B. P." (16/32), Office of this Paper.

LONDON, S.E.—Wanted, an unqualified Assistant (outdoors); must be a quick and accurate Dispenser; with knowledge of Photography preferred. Apply, stating full particulars, age, salary, references, and when disengaged, to "A. O." (16/24), Office of this Paper.

LONDON, N.W.—Assistant wanted; Minor; 2 kept; partly indoors. Apply, personally or by letter, giving full particulars, to C. Coutts Michie, Chemist, 175 Keatish Town Road, London, N.W.

LONDON, N.—Junior required for Drug-stores. State full particulars as to salary required (outdoors) and previous experience. Apply, 19/16, Office of this Paper.

LONDON, S.W.—Qualified Assistant; with good dispensing experience; about 23; indoors. Also an Apprentice. Apply, by letter in first instance, W. H. Bate, 44 Harrington Road, South Kensington.

MIDLANDS.—Qualified Assistant wanted; outdoors; long-established business, doing semi-Wholesale and Retail; one with a knowledge of Manufacturing essential; good position for a capable man; no Sunday duty; unqualified Assistant kept. Applications, enclosing photo and giving experience, etc., to 150/54, Office of this Paper.

READING.—Gentlemanly Junior or Improver (indoors) for Light Retail and Dispensing Business; comfortable home; easy hours; weekly half-holiday; no Sunday duty; splendid opportunities for study. Apply, with references, stating salary required, to F. Tunbridge, 39 Castle Street, Reading.

ST. LEONARDS-ON-SEA.—Junior Assistant wanted, immediately; outdoors; about 25 years of age; one experienced in good-class Dispensing business; hours average 56 weekly; good salary to competent man; applicants will please write fully, stating age, height, salary required, and last two references; no Optics, no Photography. Ewbank Smith, St. Leonards-on-Sea.

ST. MARY'S HOSPITAL, PADDINGTON, W.—Wanted, a Junior Assistant Dispenser; Minor qualification; ladies ineligible; salary £85 per annum, with luncheon and tea. Applications, stating age and experience, and accompanied by copies of not more than three recent testimonials, to be sent in to the undersigned on or before May 4. THOMAS RYAN, Secretary.

SCARBOROUGH.—Wanted, a Junior Assistant, qualified, for Dispensing and Light Retail. Full particulars as to salary, references, etc., to J. Clar . Clare & Hunt, Scarborough.

SHREWSBURY.—Wanted, early in June, an Improver or Junior Assistant. Cross & Son, Pharmaceutical Chemists, Shrewsbury.

SOUTH AFRICA.—A first-class qualified man, unmarried, wanted for Senior position; 3 years' agreement; passage paid out; salary £20 per month first year, £21 per month second year, £22 per month third year; bedroom provided. Apply, by letter, "L.," 54 Queen Elizabeth Street, London, S.E.

SOUTH OF ENGLAND.—Smart, gentlemanly Assistant required; good salary and permanency for suitable man; good Dispenser essential. Timothy White Co., Ltd., Portsmouth.

SOUTHSEA.—Junior Assistant, with knowledge of Dispensing and accustomed to good-class modern business. Apply, enclosing carte (to be returned), to T. A. White, Elm Grove Pharmacy, Southsea.

SOUTH WALES.—Qualified Manager wanted, by June 1, married preferred, for Village Branch; Light Retail and Garden Seeds, salary £120, with good house and gas. Apply, with full particulars, age, height, experience, references, etc., 10/32, Office of this Paper.

THE MANCHESTER NORTHERN HOSPITAL FOR WOMEN AND CHILDREN, Park Place, Cheetham Hill Road.—Wanted, for June, a duly-qualified Dispenser. Applications, stating age, experience, and salary required, to be sent, on or before Thursday, May 5, to Hubert Teague, 38 Barton Arcade, Manchester.

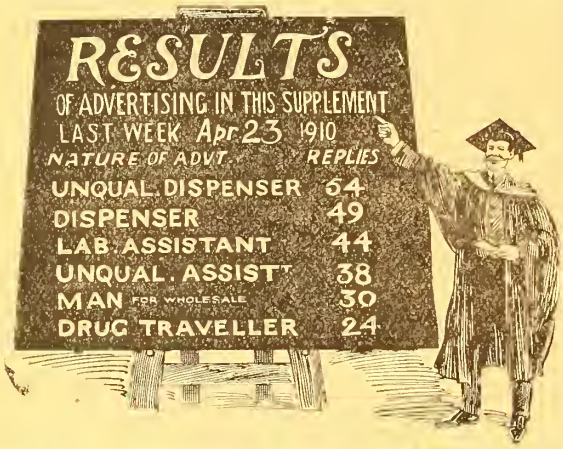
TRANMERE.—Junior or Improver in Light Retail and Dispensing business. State age, height, references, and salary (indoors), Lumby, 12 Church Road, Tranmere.

TUNBRIDGE WELLS.—Qualified Assistant for high-class Dispensing business; indoors; about May 10; 2 kept. State usual particulars, salary required, and enclose photo, Howard & Son, Tunbridge Wells.

SITUATIONS OPEN *(continued).*

VENTNOR.—Immediately, Assistant; about 22; best-class Retail and Dispensing; knowledge of Photography essential; qualified or not; indoors; half-holiday weekly; a good Junior entertained leaving apprenticeship if experienced. Usual particulars, stating when disengaged, to Dunning, Ventnor.

WEST ENGLAND.—County town; reliable Assistant, 26 to 30, to manage busy medium-class business; good Counterman and Prescriber essential; Photography; permanency and good prospects offered to really capable man who can command business; good references necessary. Please give full particulars, experience, height, salary, photo, etc., first letter, "Bevona" (15/19), Office of this Paper.



This Blackboard demonstrates that Advertisers using these columns get a ready response to their announcements. The figures only refer to some of the letters RECEIVED AT OUR OFFICE on behalf of advertisers who use a number or nom de plume.

A YOUNG Assistant as Junior until about the middle of September, in good-class business; must be well recommended and have knowledge of Photography. Apply, giving full particulars, to Alfred Bond, The Pharmacy, Newquay, Cornwall.

C. GERRING, Chemist, Stationer, and Newsagent, New Romney, Kent, requires, immediately, a confidential Assistant; expert Prescriber, Extractor (painless by injection); preference given to one able to take Impressions, having knowledge of Photography, and requiring a permanency; unexceptional references necessary; married man not objected to; salary £2 per week (outdoors), commission by arrangement.

HERBALIST and Druggist.—London, N.—Smart, capable Assistant; able to Manage branch if required; must have some knowledge of Herb trade. Write, stating full particulars, age, etc., 15/28, Office of this Paper.

JUNIOR Assistant required for a good-class business in a large town, Midlands; outdoors; no Sunday duty. Please apply, giving full particulars as to experience, etc., 15/30, Office of this Paper.

JUNIOR or Improver wanted; just completed apprenticeship preferred, in up-to-date business in busy main road, S.W.; splendid opportunity for acquiring thorough business training. State particulars and salary required, outdoors, to 18/24, Office of this Paper.

JUNIOR wanted for Book-keeping, putting up orders, making toilet and other preparations, keeping stock, and occasionally assisting at counter. State age, height, references, and salary required (outdoor), and enclose photo, to 14/37, Office of this paper.

LARGE firm of qualified chemists have an opening for competent qualified man, capable of taking charge of up-to-date cash businesses; good salary offered to the right man. Give full particulars of experience and three references in first letter to save time. (19/17), Office of this Paper.

LEWIS & BURROWS have a vacancy for an unqualified Assistant for a suburban branch. If application is made by letter kindly enclose photograph and full particulars to 146 Holborn Bars, E.C.

NEEDHAMS, Ltd. (Head offices, Huddersfield), have an opening for a young qualified Assistant. State age, experience, salary required, and when at liberty. Comfortable position and prospects of early advancement.

QUALIFIED Assistant required; about 24; accustomed first-class Dispensing business; indoors. Please state full details of experience, age, height, salary required, and enclose photo to R. C. Harrison, Hindhead Pharmacy, Grayshott, Haslemere.

QUALIFIED Manager wanted, in the S.E. district of London, to work up a Business that has been much neglected; good healthy neighbourhood; required to live above the business premises; for a smart, pushful man this is an exceptional opportunity; salary and commission. Apply, "X. Y. Z." (13/32), Office of this Paper.

RELIABLE Junior wanted at once in good-class Dispensing and Photographic business. Half-hour from London, S.W. district, outdoors; hours 8 to 8 and half-day holiday weekly. Apply giving references and experience, to "Fortuna" (14/16), Office of this Paper.

SMART gentlemanly Assistant; able to do ordinary Dispensing work experienced in taking Impressions, etc.; able to assist at Counter as required; permanency; age about 25 to 30; indoors. W. O. Smith, Pharmacist, Fareham, Hants.

WAITE & CHAMBERS, Suffolk Lawn Pharmacy, Clapham, require a qualified Assistant for Dispensing (indoors) about 23 to 30. Full particulars.

WANTED, a really good, qualified Manager, about 35 years of age, to manage a large first-class Retail Business; must be a thoroughly good man and well up in every branch. Apply, Office of this Paper.

WANTED, a smart young qualified Junior, aged about 23, for high-class Retail Business; easy hours and improving prospects to a really good man. Apply, 12/300, Office of this Paper.

WANTED, a Junior Assistant or Improver; indoors; knowledge of Dispensing and Photography essential. Please state age, photo, and usual particulars, with salary required, to N. Beck, Pharmacist, Burgess Hill, Sussex.

WANTED, experienced, qualified Chemist (Major preferred) to Manage business for widow in East Yorks. State age, experience, references, and salary required, 151/2, Office of this Paper.

WANTED, qualified Lady Dispenser with some experience of Surgery work. Apply, Dr. Graham, Wigan.

WANTED, at once, a qualified Assistant; about 25; accustomed to good-class business; must be a neat and accurate dispenser; one with London or suburban experience preferred. Apply, enclosing photo, to J. Bletsoe, Pharmacist, Richmond, Surrey.

WANTED, young man as Assistant for a Chemist's retail in N.W. suburb; age 21 to 23; one just out of his apprenticeship preferred; time given for study; salary £23 to £ indoors. Apply by letter only to "Delta," c/o Battley & Watts, Elephant Yard, Fore Street, London, E.C.

WANTED, Improver in London Dispensing business; state age, height, salary required and previous experience; by letter only to "Chemist," c/o Battley & Watts, Elephant Yard, Fore Street, London, E.C.

WANTED, in about 6 weeks' time, London suburb, outdoors; smart Assistant; must be energetic, reliable; total abstainer preferred; age about 30; fair Prescriber; good salary. Write full particulars, stating last employer, 19/18, Office of this Paper.

WHOLESALE.

LONDON.—A thoroughly competent Pill-maker wanted with good all-round knowledge. State age, experience, and wages required, to 17/36, Office of this Paper.

SOUTH AFRICA. — Representative, having already some substantial and allied agencies, wanted by Export Druggists; knowledge of country indispensable. Apply, with full particulars to 94/67, Office of this Paper.

AS Packer and Stockkeeper in Wholesale Sundries wanted a strong, intelligent young man; must have similar experience; suit anyone living on G.E. line to Enfield. Address full particulars to A. Cook & Co., Enfield.

CHEMIST.—An old-established Wholesale house, with a view to extension of business, have an opening for a Chemist to inaugurate and superintend a Drug and Speciality Department, a excellent opportunity for man with original ideas and knowledge of the Chemist's requirements; must be prepared to invest least £1,000. Apply, stating fullest particulars, 12/36, Office of this Paper.

DRUGS.—Junior Wet Floor Counter hand required for a London Wholesale Manufacturing Druggist's house. Address, stating previous experience and salary expected, to "Tincture," c/o Streets, 30 Cornhill, E.C.

LADY Dispenser for Wholesale Manufacturing Laboratory near G.E.Rly. North-East London; need not be qualified; must be resident in North-East district. Apply, stating salary expected, to 151/50, Office of this Paper.

PHARMACIST for New York; well-educated young Pharmacist, with good Retail experience in British Isles, wanted to demonstrate Pharmaceutical Preparations to Medical men. Apply, "N. Y." (152/44), Office of this Paper.

TRAVELLER required for Yorkshire and part of adjoining counties, by Wholesale Drug House; preference given to one with connection. State experience, salary required, age, and references, to 15/38, Office of this Paper.

TRAVELLERS calling on Wholesale and Retail Chemists can hear of excellent Side-lines (Loofah articles): London and country; good commission allowed. Write, Morrison, 4 Domingo Street, London, E.C.

TRAVELLER wanted for Glasgow and district by a well-known firm of Wholesale Druggists and Manufacturing Chemists; must be energetic and have thorough knowledge of the trade and a good connection amongst Chemists, Doctors, and Veterinary Surgeons. Applications, strictly confidential, stating age, full particulars of experience, with ground covered, salary required, and photograph, if possible, 17/6, Office of this Paper.

WANTED, capable Representative for stand at Chemists' Exhibition: first-class references necessary. State lines known, extent of experience, and with what firms, to "X." (10/7), Office of this Paper.

WANTED, smart Representatives already calling on Chemists and Drug Stores to push Speciality as Side-line on commission basis. Particulars of ground covered, houses represented, and commission required to 13/2, Office of this Paper.

WHOLESALE.—An Assistant required in London with a good all-round knowledge of Drugs, Sundries, Surgical-instruments, and Photographic Goods; salary £2 per week. Apply, by letter only, "A. B.," 73 Newlands Park, Sydenham, S.E.

WHOLESALE (London, S.E.).—A manufacturing firm supplying Chemists' Specialities have a vacancy for a Pharmacist; young man with some experience of the Wholesale would be preferred, though this is not essential. Write, stating salary required, age, and particulars of former experience, "Pills" (16/11), Office of this Paper.

WORKS and General Manager; one with experience in making and packing Proprietaries; good knowledge of the Wholesale and Retail trade essential; Provinces. Apply 15/11, Office of this paper.

PARTNERSHIPS.

PARTNERSHIP.—Wholesale firm have a vacancy for a Partner with experience and able to introduce about £2,500. Address, "Confidential" (152/36), Office of this Paper.

SOUTH OF SCOTLAND.—Partner wanted in a good-class, well-established Dispensing Business with turnover of £1,200 a year; to young, energetic, qualified man this would afford an excellent opening. Apply, Gordon & Whitelaw, Writers, Dumfries.

AGENCIES.

DUN'S CAPSULES.—An exceptional opening occurs for a responsible house to take up a Buying Agency and adequately Represent these well-known productions, which now include Chemists' "own named" goods, throughout London and the provinces, on a progressive policy; a financial interest with limited liability could be arranged as a further inducement and assurance to both parties; bona-fide inquiries only entertained. R. T. Dun, 5 Oswald Street, Glasgow.

GENTLEMAN with first-class connection amongst Doctors, Chemists, Institutions, Hairdressers, etc., and having central office and show-room, is open to undertake Management in Scotland of Branch Agency or establishment; first-class references. Apply, 150/204, Office of this Paper.

MEDICINAL Herbs Exporter on the Continent wants Agent against high commission. Write, stating particulars, 15/5, Office of this Paper.

REPRESENTATION of Chemical Works, Perfumer's Fabrics, and Fabrics of Pharmaceutical Preparations, etc., first-class firms only, seeks for Austria-Hungary and the Balkan States diplomed Pharmaceutical Chemist, well acquainted with the Chemists and Druggists, with first-class references, good representative, versed in languages, introduction of new inventions of this branch. Apply, under "E. C.," to the Advertising Office of Rudolf Mosse at Budapest.

WANTED, Agency for Scotland for high-class goods suitable for Chemists or Hairdressers; good connection; central office and showroom. Apply, 150/24, Office of this Paper.

WANTED, Wholesale firm having good connection with Chemists, etc., to take up Agency of Speciality for London and the South. Apply, 13/02, Office of this Paper.

SITUATIONS WANTED

[HOME.]

RETAIL.

JUNIOR; 22; disengaged. L. B. Lloyd, 125 Sumatra Road, West Hampstead.

EVENINGS from 6 P.M.; Minor student; experienced Dispenser. 12/29, Office of this Paper.

QUALIFIED Locum or permanency; good references. "W. S.," 14 Barrack Road, Heavitree, Exeter.

LOCUM; qualified; disengaged; experienced; good references. Rose, Donnington, Moreton-in-Marsh.

LOCUM; high-class General experience; May 11; unqualified. "C.," 22 Promenade Villas, Cheltenham.

SMART Junior; 22; 6 years' experience; Counter; good references. A. Wales, 2 Clarence Terrace, Haxby Road, York.

J; Junior or Improver requires situation; small Dispensing business preferred. Last, High House, Occold, Eye.

QUALIFIED; tall; 21; 5½ years' all-round experience; seaside or inland watering-place preferred. Heaton, Ripley, Derby.

JUNIOR (21) requires good Dispensing experience; good reference. Full particulars to Smith, 10 West End Terrace, Stockton-on-Tees.

QUALIFIED Chemist (lady) requires post as Dispenser; Lancashire; some Retail experience. "Thistle" (12/34), Office of Paper.

HOSPITAL, Institutions; Relief Dispenser; manager, experienced, reliable, registered. "M.P.S.," 31 Cambridge Road, Sidcup, S.E.

AS a tall, smart, energetic Junior I require a berth; first-class experience; unqualified; London or Midlands. 13/20, Office of this Paper.

UNQUALIFIED Branch Manager; single; 33 years' exceptional experience; undeniable references. "Hamba" (13/8), Office of this Paper.

QUALIFIED; season or Locum; South Coast; excellent references; good Dispenser. W. G. Williams, 228 Upper Parliament Street, Liverpool.

FRENCH Chemist, speaking German, French, and Russian, 26, good references, seeks situation; small salary. Troopin, General Post Office, London.

LADY Dispenser (Hall qualification) desires post with Doctor, Chemist, or Institution; excellent references. Miss Davies, Goytre Fawr, Killay, Swansea.

CAPABLE Dispenser; excellent Salesman, Prescriber; trustworthy; references; gentlemanly; moderate remuneration. "Alert," 55 Fieldgate Street, E.

CAPABLE Junior desires berth in a good-class Pharmacy; 5½ years' experience and references; height 5 ft. 9 in. R. J. Roberts, 147 High Street, Tewkesbury.

UNQUALIFIED Branch Manager; good all-round experience; married; 30 years of age; 6 years present situation. "Cameo" (/24), Office of this Paper.

LOCUM; qualified; 32; capable and reliable; varied experience. F. W. Manning, Fairford, Glos.

QUALIFIED; 30; good Dispenser; abstainer. "Rosary," Gloucester Road, Hampton-on-Thames.

LOCUM or temporary Assistant; qualified. Write vacant dates, Stocks, c/o Broadbent, Honley.

JUNIOR; Extractor, Impressions where dental connection is. Price 85 Cemetery Road, Southport.

JUNIOR or Improver; age 19; 4 years' experience; references. "A. D.," 1 Brook Street, Treorchy.

ASSISTANT; qualified; good Dispenser; all-round experience; age 37. "D.," 35 Melbourne Road, Ilford.

QUALIFIED; 31; as Assistant or Manager; outdoors; experienced; Photography. Downing Chemist, Exeter.

QUALIFIED; season or permanence; age 23; experience; references. Mannock, Chicago Buildings, Morecambe.

JUNIOR; 21½; disengaged; Dispensing, Counter, Photography; good references. Walker, West Lea, Skipton, Yorks.

LONDON.—Experienced and capable Assistant; good Prescriber, Photography, etc. Apply, 15/36, Office of this Paper.

MANAGER or Locum; qualified; good references; disengaged. "Pharmacist," 27 Pine Street, Pendleton, Manchester.

JUNIOR or Improver; 20½; tall; Dispensing, Photography; 4 years' experience. J. H. Martin, Melsonby, Darlington.

UNQUALIFIED; 16 years' good all-round experience; excellent references. "Aspirin," 23 Welbeck Street, Nottingham.

MANAGER or Assistant; qualified; under 30; disengaged. "Chemist," 23 Belgrave Road, Edgbaston, Birmingham.

LOCUM; qualified; 32; experienced; first-class references. "Chemist," 104 Hunton Road, Gravelly Hill, Birmingham.

QUALIFIED; Locum or permanency near Manchester; good references. Bosticcy, 18 Fairlawn Street, Moss Side, Manchester.

SURGEONS' Dispenser and Bookkeeper; thoroughly experienced; 3 years in last situation; salary moderate; outdoors. H. Brice, 9 Church Road, St. Thomas, Exeter.

ASSISTANT; 28; capable; thoroughly experienced in high-class Dispensing, Counter, and Prescribing; season or permanent; outdoors. "Statim," 355 King Street, Hammersmith.

ADVERTISER, qualified, having relinquished business of his own, desires engagement as Locum, Reliever, or permanency. Particulars, "Pharmacist," 659 Lord Street, Southport.

ASSISTANT; experienced in good-class Dispensing and Photographic business; smart Window-dresser; highest references; disengaged. Parr, Elms Road, Sutton Coldfield, near Birmingham.

ADVERTISER, qualified, 11 years' dispenser to large provincial hospital, wishes to re-enter Retail; moderate salary; recent Locum experience; excellent testimonials. 12/28, Office of this Paper.

UNQUALIFIED; 22; excellent references; good Counterman, Dispensing, Agricultural, and Photographic experience; permanent or locum. Roberts, c/o Mr. Body, Pharmacist, Westcliffe-on-Sea.

UNQUALIFIED; 26; Dispensing, Photographic, and Agricultural experience; sound references as to sobriety, honesty, and industry; seeks permanency in provincial town. Replies, 16/1, Office of this Paper.

AN elderly registered Chemist and Surgeon-Dentist, with good all-round experience in both branches, seeks situation; small salary accepted if in comfortable home; in or out of doors. 13/9, Office of this Paper.

TWO smart Assistants require a berth; North of England preferred; exceptional experience; Dispensing, Prescribing, and Counter work; age 30 and 33 years respectively. "Ambo" (12/25), Office of this Paper.

JUNIOR; unqualified; good experience Mixed Business; Window-dresser; take on Agricultural line; gentlemanly and good business-builder, or abroad with gentleman. Reply, "Hibernis" (10/29), Office of this Paper.

QUALIFIED Manager; 33; 5 ft. 9 in.; married; 19 years' good-class experience; Dispensing, Photographic, Window-dressing; 8½ years last berth; abstainer; permanency desired; excellent references. Harper, High Street, Pewsey, Wilts.

FRENCHMAN, 29 years of age, speaks English, 10 years' experience in Paris, desires situation, London or country, in a good-class Pharmacy as volunteer for a short time; beginning at once; would be willing to live with family for services given. Curie, 5 Haringey Park, Crouch End, London, N.

AS Temporary; disengaged; Minor. 17/37, Office of this Paper.

LOCUM; unqualified; disengaged; good references. Wood, 21 Ansell Road, Dorking.

RELIABLE Assistant; outdoors; unqualified. "J.," 129 Russell Avenue, Wood Green, N.

QUALIFIED; 28; tall; married; experienced; Manager, Senior, Locum. Wilson, 56 Mazenod Avenue, N.W.

UNQUALIFIED; 32; Counter, Dispensing, Photographic; energetic, reliable. "Phenol," 84 Moncrieff Street, Peckham.

EXPERIENCED Locum and Drug-branch Manager; 49; disengaged May 5; abstainer. "Statim," 63 Maple Street, W.

JUNIOR; disengaged; Photography, Window-dressing; excellent reference; terms moderate. Clapham, Trafalgar Square, Barking.

QUALIFIED; 26; Dispensing and Store experience; excellent references; disengaged. "Chemist," 18 Heslop Road, Balham, S.W.

ASSISTANT; whole or part time; 27; abstainer; 12 years' high-class experience; undeniable references. 18/27, Office of this Paper.

QUALIFIED; excellent references; Dispensing, Photographic, and Counter. Walkinshaw, 40 Stanley Road, Barrow-in-Furness.

ASSISTANT; unqualified; 27; tall; good Salesman, Window-dresser, Photography. "S.," 50 Rumford Street, Oxford Road, Manchester.

ADVERTISER (age 23) desires permanency; first-class West-End experience; outdoors; London. "Calox," 19 St. Julian's Road, Brondesbury.

JUNIOR; 20; in or near Manchester; good General experience; Photography; disengaged May 7. Particulars from Roberts, 119 Bury New Road, Bolton.

SOUTH OF ENGLAND.—After Whitsun; Assistant; unqualified; 28; experienced and reliable; abstainer; 10 years' experience. Jenkins, 13 Walter Road, Swansea.

SENIOR Assistant with prospect of managing; 12 years' good-class experience; age 30; unqualified; abstainer. "Statim," 63 Highlever Road, North Kensington.

ASSISTANT or Locum; 30; single; capable Dispenser, active Counterman; smart; disengaged May 9. "Unqualified," 2 Palmerston Road, Southsea, Portsmouth.

EXPERIENCED and reliable qualified Manager requires responsible position; married; 33; town or country; good references. "Velox," Rosendale Station Road, Herne Bay.

QUALIFIED Assistant or Branch Manager; 23½; all-round experience; Leeds or Bradford district; permanency required. Moore, 137 Salt Street, Manningham, Bradford.

THREE months' free services; qualified; 32; Counter-trade proficiency desired; Surgery; experienced; maintenance; references. Clarke, 28 Iliad Place, Fox Place, Liverpool.

ASSISTANT; 23; tall; abstainer; 8 years' experience; Dispensing, Photography; Midlands or North preferred; disengaged end of May or earlier. 15/12, Office of this Paper.

CHEMISTS who require a smart and up-to-date Junior should communicate with me; Dispensing, Photography, Advertising, etc., offered. "Cremex," 29 Unity Grove, Harrogate.

BIRMINGHAM.—Three or four days a week, or part time; good all-round experience; age 32; references; any capacity. "Saccharine," 38 York Street, Harborne, Birmingham.

ASSISTANT, Danish qualified (age 27), continental experience, desires situation; good references; speaks French and German; small salary. Apply, 18/1, Office of this Paper.

ASSISTANT; unqualified; age 23; married; 6 years' all-round experience; Dispensing, Photography, Extracting; good references. "Statim," 116 Richmond Road, Wimbledon, S.W.

UNQUALIFIED; 23; good experience; excellent references; abstainer; Counter, Dispenser, Extractor; would manage small branch; disengaged. "Statim," 41 Burwash Road, Plumstead.

MANAGER, Locum, Relief; qualified; exceptionally good all-round experience; excellent references; reliable, trustworthy; disengaged to-morrow (Saturday). "Aspirin," 87 Hayter Road, Brixton Hill, S.W.

YOUNG German gentleman (Apothecary) desires situation in a good-class Pharmacy as "volontaire" for a short time, beginning August 1; if possible would prefer to live with family; willing to pay. 8/5, Office of this Paper.

A YOUNG qualified Italian Pharmacist, with 10 years' experience, speaking French and a little English, desires a situation at a Chemist's in or near London. Address, stating terms, to "Delta" (8/17), Office of this Paper.

UNQUALIFIED; 25; disengaged. F. W. Stiles, 10 Avenue Road, Doncaster.

PHARMACIST; disengaged; qualified. "F.," 70 Tyndall Road, Leyton, N.E.

UNQUALIFIED Manager for Chemist's branch; married. 16/13, Office of this Paper.

ASSISTANT; 32; good references; permanency. Weale, c/o Chemist, Blaina, Mon.

BURRELL, Ph.C., 68 Well Close Grove, Leeds; experienced, energetic; 37; moderate terms.

QUALIFIED Assistant; all-round experience; disengaged. Wetton, 27 White Street, Coventry.

MANAGER or Locum; qualified; experienced; Loudon; outdoors. "Calox," 32 Redburn Street, Chelsea.

LOCUM; qualified; excellent references; disengaged. "Caius," 21a Castletowa Road, West Kensington.

DISENGAGED; unqualified; several years' experience. R. M. Lelcaa, 2 Rockville, Hautville, Guernsey.

BRANCH; qualified; married; would live on premises. "Chemist," 18 Galloway Road, Shepherd's Bush.

MANAGER; Locum, Relief; disengaged Whitsuntide. "Pharmacist," 22 Kilkie Street, Fulham, S.W.

LOCUM Assistant; Dispenser; unqualified; disengaged; outdoors. "Lux," 1 Heath Terrace, W. Greenwich.

BRANCH Manager; permanency or Locum; qualified; best experience. "Chemist," 22 Elgin Avenue, W.

STUDENT (25) requires situation in London; time off for study; moderate salary. 16/29, Office of this Paper.

LOCUM, Manager; 30 years' experience; qualified. Smith, 5 Hannah Street, Crowcroft Park, Manchester.

MANAGER; with or without view of purchase; qualified; best experience. Box 19/11, Office of this Paper.

SEASIDE Locum; well up Dispensing, Prescribing, Photography, and Extracting. 16/31, Office of this Paper.

JUNIOR; 22; tall; Dispensing, Photography, Counterman; disengaged. "Rhei," 165 Cathays Terrace, Cardiff.

PART-TIME; study for Minor; Clapham district preferred. "Drug," Pentwyn Farm, Llansamlet, South Wales.

LOCUM or permanency; qualified Manager; middle-aged; abstainer. "Phenacetin," 10 Raby Street, Darlington.

JUNIOR; 5½ years' good Counter experience; Optics and Photography. M. Cooper, 3 Ashburnham Grove, Greenwich.

IMPROVER or Junior; 20; Lancashire town or city; knowledge of Dispensing and Photography. 14/12, Office of this Paper.

QUALIFIED man seeks re-engagement; good Dispenser, Counterman, and Photographer; age 24. 15/8, Office of this Paper.

QUALIFIED; 32; married; 5 ft. 11 in.; Counter, Dispensing, Photography. "G. O. S.," 17 Glenwood Road, Catford, S.E.

JUNIOR; 20; Dispensing, good Counter, Photography; disengaged one month from engagement; references. 15/6, Office of this Paper.

ASSISTANT; 36; competent, energetic; Dispensing, Counter, and Photography; good references; unqualified. 14/11, Office of this Paper.

MANAGER; middle-aged; London experience in first-class Pharmacies; excellent references; disengaged. 17/10, Office of this Paper.

MANAGER; experienced; middle-aged; highest references; town or country; permanency desired. "Pharmacist" (17/5), Office of this Paper.

CHEMIST'S son, smart, good Salesman (21), requires situation; good references; has managed small stores; at liberty. 14/34, Office of this Paper.

DISENGAGED; experienced and capable Dispenser; smart Counterman, good Prescriber, Extractor; gentlemanly; abstainer. 16/35, Office of this Paper.

DISENGAGED; qualified; 22; Branch Manager or Assistant; good all-round Retail and Dispensing experience; excellent references. 16/2, Office of this Paper.

MANAGER; married; qualified Chemist; first-rate Prescriber. Veterinary, many years Dental Surgery; liberty in a few weeks. "Amalgam" (14/43), Office of this Paper.

DISENGAGED; nearly 21; required situation with time for study; near London preferred; 4 years in Wholesale and Retail. Pickworth, Lakenheath, Suffolk.

UNQUALIFIED; 35; height 6 ft.; single; good experience; Photography; 3 years' reference; good address; disengaged. "Idix," 32 Trinity Road, Tooting, S.W.

LONDON.—Qualified; Counter; good London and Continental experience; 5 ft. 9½ in.; 26 years; free May 5. Write, "London," Hamhurst, 25 Julian Road, Folkestone.

PORTER and assist shop; 19; shortly disengaged; excellent Stockkeeper, Packer, Photography, Developer; 6 years present situation. Passingham, Quay Street, Fareham.

UNQUALIFIED; 23; exceptional references and experience. "Statim," Broad View, Hatherley Road, Winchester.

J. PYE is disengaged; looking for holiday engagement; open except the first three weeks in August. 62 Synette Avenue, Clapham Common.

SMART, active man desires engagement as relief or part time; highly recommended; disengaged May 1. Forster, 5 Coleridge Road, Finsbury Park, N.

MANAGER; disengaged May 6; aged 41; qualified; or as Locum, London or South; good Dispenser; wide experience; reasonable salary. Hauham, Alexandrine, Tredegar Road, Southsea.

CROYDON or district preferred, not essential; Branch Manager or Assistant; qualified; 5 ft. 5 in.; 25; 9 years' experience; capable Dispenser. "Energetic" (16/27), Office of this Paper.

DISENGAGED; qualified; aged 35; height 5 ft. 10 in.; good appearance; excellent references; permanency; Locum, Prescribing, Photographic, Optics. 47 Briscoe Mansions, Brixton Hill.

WHOLESALE.

PORTER and Packer seeks situation; tall and strong; good references. 16/25, Office of this Paper.

TRAVELLER; 25 years' experience; Drugs and Packed Goods; moderate terms. 18/40, Office of this Paper.

TRAVELLER, large personal connection chemists and doctors, now disengaged. Apply, 13/33, Office of this Paper.

YOUTH seeks situation at Counter in London; Wholesale; 2 years' experience. "H.," The Crescent, South Tottenham.

WANTED, situation, Wholesale Chemist and Druggist; 4½ years' experience; age 19; references. 15/10, Office of this Paper.

EXPERIENCED; 32; desires position; Wholesale, Drugs, Surgical, Photographic. "Reliable," 84 Moncrieff Street, Peckham.

PHOTOGRAPHIC Traveller, well known to Chemists South-West England, would Travel in any Chemists' Sundries; correspondence invited. "E.," 4 Festing Grove, Southsea.

TRAVELLER (experienced) seeks re-engagement; good sound connection in Wales, Lancashire, and Cheshire; Sundries, Drugs, Perfumery, etc. Replies. No. 17/2, Office of this Paper.

OFFICE Manager and Cashier, with up-to-date methods, desires change; expert Accountant; long Drug-trade experience; can give security; highest references. 1/40, Office of this Paper.

REPRESENTATIVE with 20 years' connection in London, Eastern Counties, and South Coast seeks re-engagement; undeniable references; correspondence invited. 18/30, Office of this Paper.

ADVERTISER, representing established house, calling best Chemists, Manchester to Aberdeen, can Represent another house. "Commercial," 10 Kimberley Avenue, Romiley, Cheshire.

REPRESENTATIVE seeks re-engagement; large personal connection, Liverpool, Cheshire, North Wales, etc., Drug or Sundries, with firm of repute. "Commercial" 109 Walton Breck Road, Liverpool.

PHARMACEUTICAL Chemist, experienced in Wholesale and Manufacturing requirements and in Clinical analysis, seeks a permanency; excellent references. Apply, "Robur (152/52), Office of this Paper.

ADVERTISER (30), single, qualified, highest West-End and provincial Retail experience, desires post in Wholesale; organiser and energetic; would travel; interview London. "Initiative" (15/27), Office of this Paper.

PHARMACIST; 28; good personality; capable interviewer; ambitious, and very energetic, is desirous of entering Wholesale, where ability and hard work would procure progressive advancement. "Trustworthy" (14/15), Office of this Paper.

ADVERTISER has had 10 years' excellent Retail experience; now desires position in reputable Wholesale house where energy and ability would be of advantage; good appearance and address; credentials excellent. 17/1, Office of this Paper.

REPRESENTATIVE seeks berth; 10 years' experience in Wholesale Drug, Sundries, and Drysaltery trade, and has good connection in South and West Wales and S. Midlands; part Representation not objected to. "C. W. B.," 85 Berkeley Road, Bishopston, Bristol.

ADVERTISER, with several years' experience as Manager for a large pill and tablet manufactory, is open for a change. Midlands preferred; practical and comprehensive experience in the production of pills and tablets in large quantities; specialities in pearl, gelatine, and chocolate coating, etc.; good disciplinarian. "Pilule" (15/18), Office of this Paper.

DON'T wait! See at once! Capable and gentlemanly Representative (prime of life) seeks permanent engagement, Drugs, etc., and Midlands, North-East, or East preferred; sound trade knowledge and connection; satisfaction and fidelity guaranteed. N.B.—Could assist Exhibition (previous experience); inquiry solicited; interview arranged; correspondence, offering terms, invited; well-established houses only. "Chemicus" (18/19), Office of this Paper.

STOCKTAKING BARGAINS AND JOB LOTS.

34 complete Pospiszil Chemist's label-writer (15*s.*), reduced to 10*s.* 6*d.*

4,600 German pill-boxes (purple, shouldered), No. 3, reduced to 2*s.* 7*d.* per gross.

6,250 ditto ditto, No. 4, reduced to 3*s.* 6*d.* per gross.

19 gross "Glover's Celebrated Court Plaster," handsome 6*d.* cases, reduced to 2*s.* doz.

24½ gross ditto ditto, 1*s.* cases, reduced to 4*s.* 7*d.* doz.

18 gross "Fru-Fru" cachous, 4*s.* 10*d.* gross.

47½ gross empty "Camphor Ice" tins (2*d.* line), 3*s.* 10*d.* gross.

30 gross empty "Eucalyptus Camphor Ice" tins (1*d.* line), 2*s.* 2*d.* gross.

24 pairs "Dr. Walker's Flatfoot Socks" (6*s.* line), pair 3*s.* 10*d.*

4½ doz. "Zematone" Asthma Powders, No. 1 and No. 2, 20*s.* 6*d.* doz.

3 large Air-cushions, indiarubber (quite new), list price 10*s.* 6*d.*; what offers?

4 medium ditto ditto (quite new), list price 6*s.* 9*d.*; what offers?

4 small ditto ditto (quite new), list price 5*s.* 7*d.*; what offers?

70 lb. red Douche Tubing (quite new), 4*s.* 2*d.* per lb.

64 lb. black ditto (quite new), 3*s.* 11*d.* per lb.

38 doz. cheap cotton Suspenders, 2*s.* 2*d.* doz. (usual price 3*s.* 6*d.*).

29 doz. good-class linen Suspenders, 2*s.* 7*d.* doz. (usual price 4*s.* 6*d.*).

50 grams "Lenigallol" (Knoll), 2*s.* 3*d.*; 25 grams Codcin. Hydrochlor. (Böhringer), 9*s.* 3*d.*; original tins "Migranin," 100 grams 7*s.* 10*d.*, 50 grams 4*s.*, 25 grams 2*s.* 2*d.*; 10 grams "Orexin" tannicum, 1*s.* 6*d.*

58 doz. sticks Hamburg plaster, u/st., 8*d.* doz.

76 doz. bottles Dutch Drops (Haarlem Oils), u/st., 1*s.* doz.

18½ doz. Clinical Thermometers, lens front, marked ½ minutes, 9*s.* 6*d.* doz.

26 doz. ditto ditto, round, ditto, 8*s.* 10*d.* doz.

43 doz. ditto ditto, American pattern, ditto, 8*s.* 9*d.* per doz.

50 Artificial Eyes, best make; what offers?

CACHETS.—For Morstadt machine, 460 boxes, 1,000 each No. 000, 00, 0, 0½, 1, 1½, 2, 2½, 8*d.* per box of 1,000, in 10,000 lots 7*d.*; about 60 boxes ditto No. 1, printed "Headache," "Toothache," "Neuralgia," at 11*d.* per 1,000. For "Finot" or "Chapipeau" machine, No. 3, 2 bis, 2, 1 bis, 1, 0, about 93 boxes in all, 8*d.* per 1,000; also 48 boxes printed "Quinine," "Antipyrine," "Antineuralgic," 10*d.* per 1,000; 56 boxes 1 bis, pink coloured, 10*d.* per 1,000. For small Maw's machine, No. 3, 2, 1, 0, 8*d.* per 1,000.

Wafer-paper, in boxes of 1,000, round, 1*s.* 6*d.* per box; ditto, ditto, square, 1*s.* 4*d.* per box.

CACHET CLOSING MACHINES.—1 to close 100 cachets, No. 2 Finot (list price £4), 28*s.* 6*d.*; 1 to close 100 Morst., No. 0½ (list price £3), 22*s.* 6*d.*; 16 compl. "Non plus ultra" to close 12 cachets of 7 sizes, 2, 1½, 1, 0½, 0, 00, 000 (list price 24*s.*), 14*s.* 10*d.*; 7 "Fasser" machines, to close No. 1, 2, 3, 12 of each size compl. with cachets, 13*s.* 10*d.* (list price 24*s.* 6*d.*); 4 "litr" dry closing machines for 12 No. 1 (list price 15*s.*), 8*s.* 6*d.*; 4 ditto, to close 12 No. 2 and 6 No. 1, 9*s.* compl.; 4 ditto, to close 6 No. 2, 7*s.* 6*d.*; 12 ditto, to close 6 No. 1 and 6 No. 2; 5 ditto, to close 12 each No. 1, 2, 3 (list price (30*s.*), 14*s.* 6*d.* compl.

178,000 stock labels, printed in gold and colours, for "Lemon," "Vanilla," and "Cochineal" essences, 8*d.* per 1,000.

5 lb. ol. cinnamomi; what offers?

2½ lb. saccharin tablets; what offers?

8½ gross cachet-boxes, to hold 12 cachets No. 2, 1½, or 1, 8*s.* 10*d.*

6 gross ditto, to hold 12 cachets, No. 0½ or 0, 6*s.*

3½ doz. boxes Dr. Braam's "Apiol Rondelles," 7*s.* 6*d.* size, 3*s.* 4*d.* each.

6½ doz. boxes ditto ditto, 2*s.* 6*d.* size, 13*s.* doz.

29½ gross Miva shampoo-powder (2*d.* line), 10*s.* 6*d.* gross.

74 doz. Lauer's "Harz Mountain Tea" (Harzimona), 1*s.* 1*d.* line, slightly soiled at an exhibition, to clear 4*s.* 11*d.* doz.

149 "Gloria" and "Ideal" female syringes (10*s.* 6*d.* line), 5*s.* each.

ALL NET CASH ONLY, *ex* OUR WAREHOUSE.
CANNOT REPEAT.

M. SCHLIEPHAK, LTD.,

MANUFACTURING CHEMISTS, EXPORTERS, IMPORTERS, AGENTS, ETC.,

44 Charlotte Street, London, W.

DO YOU MAKE A LIVING PROFIT ON THE MINERAL WATER YOU ARE SELLING?

SOURCE RICHELIEU
BASSIN OF
VICHY

gives you 55 % protected profit.

A case of 50 bottles (litres) costs **18/10**, carriage paid in U.K.; and the P.A.T.A. price is **7d.** per bottle.

Write for Sample, Analysis & other particulars to the Sole Agent:

EGL. TREFAULT, 14 Cheapside, E.C.

MISCELLANEOUS.

MCADAM & TUCKNISS, Sharedealers, Bank Chambers, Blackheath, S.E. Telephone 81 Lee Green.

SHARES FOR SALE (free of commission, subject).—35 Allen & Hanburys "B" Preference, 24*s.*; 260 Buiss Bros. & Stevenson, 5½ per cent. Preference, 19*s.* 6*d.*; 300 Baku Oil, 7*s.*; 15 Evans Lescher Preference, £5 3*s.*; 80 G. B. Kent Preference, 17*s.* 6*d.*; 10 Meggeson Preference, 78*s.*; 500 Oil Trust (1*s.* shares), 1*s.* 1½*d.* premium; 100 A. J. White Preference, 10*s.* 4½*d.*, 40 Ordinary, 2*s.* 6*d.*; 100 Wright Layman Preference, 22*s.* 4½*d.*; 14 Camwal Preference, 6*s.*; 20 Brunner Mond, £5 1*s.* 9*d.*

WANTED (subject).—500 Idris "A" Preference, 3*s.*, £200 Debentures, 60 xd; 500 A. J. White Ordinary, 2*s.*

List of shares for sale and wanted sent free on application. Bankers, London County and Westminster. Established 1898.

BARGAINS IN SHOPFITTINGS (second-hand).—Two Plate-glass fronted Serving Counters, one 17 ft. long, price £12, another 12 ft. long, £8 15*s.*; wall Show-case, 10 ft. 6 in. long, mirror centre, price £12 10*s.*; Drug-fitting, 12 ft. long, £12 10*s.*; Desk and Perfume case, 45*s.*; Plate-glass Counter-case, 5 ft. long, 80*s.*; quantity of other fittings, various sizes, great bargains. PHILIP JOSEPHS & SONS, LTD., 93 Old Street, London, E.C.

CHEMISTS' Fittings, Drug-fittings, Dispensing-screens, Perfume cases, Wall-cases, Counter-cases, Centre-cases, Counters, Window Enclosures, Drawers, A1 Shopfittings of every description (second-hand) at lowest prices that can't be beaten; get my estimate and save money; 30 years' practical experience. George Cook, The Working Shopfitter, 8 Cross Street, Islington, London.

WE HAVE WHAT YOU REQUIRE, Drug Fittings, Counters, Wall-cases, Dispensing-screens, Perfume-cases, etc., in almost all sizes; second-hand; condition first-class; prices reasonable. Write for sketches and details giving approximate sizes, or call and inspect RUDDUCK & CO., 262 OLD STREET, E.C.

SECOND-HAND Chemists', Shop, and Office Fittings for Sale, condition as new. Congdon & Son, 77 Clerkenwell Road.

CHEMISTS' SHOP-FITTINGS (SECOND-HAND). — Range mahogany drawers, with bevelled-edge glass labels and cut-glass knobs, shelving above, lockers below; mahogany dispensing-screens, counters with glass-case fronts, wall-cases, bent-front and flat-top counter-cases, counter-desks, tooth-brush cases, complete shop sounds, etc.; every requisite for chemists; extensive stock to select from at extremely low prices; practical men sent to all parts; illustrated catalogues and estimates free. MATTHEWS, CHEMISTS' FITTER, 14 and 16 MANCHESTER STREET, LIVERPOOL.

THE new "Shampoo See" Linenbroker Formula for Sale. The safe Dry Shampoo contains neither Carbon Tetrachloride nor Benzine, and cleanses and dries a lady's hair in five minutes, leaving the hair soft and glossy; it does not take out artificial waving, and has proved itself a valuable tonic and a great boon to all ladies and Ladies' Hairdressers. The Imperieux Supply Co., 100 Harrow Road, London, W.

TO CHEMISTS, Perfumers, Hairdressers, Co-operative Stores, etc.—Specialities and private formulas manufactured to order, lowest terms; strict secrecy observed; experienced practical chemists employed, with thorough knowledge of proprietary articles of all classes and descriptions; experimental work undertaken if required; formulas supplied, general, medical, toilet, household of known practical value, when necessary. Write "Manufacturers" (18/32), Office of this Paper.

GUMMED PRICE TICKETS
Crimson ground, white figures.
Stocked in all usual prices up to 21/-, each price banded separately in hundreds.
The Midget, 9d. per 1,000
The Magnum, 1/6 „ „
assorted 10 prices.
Full illustrated list of Blanks for use with these tickets free on application.
1/3
10D.
DUDLEY & CO., Ticket Writers & Printers, Holloway, London

PHARMACEUTICAL WHOLESALE INDUSTRY.

GENERAL REPRESENTATIONS

Bona-fide Pharmaceutical or Medical Specialities are taken over for rmany by good firm possessing capital and well introduced to the termediate Trade and Physicians. Large Warehouses, in which entually Manufacturing, Filling-out and Packing of the Preparations uld be carried on, are at hand. Correspondence invited to L. R. 2180, re of Rudolf Mosse, Berlin, S.W.

£10,000 Prize for Aviation.

That is a prize worth receiving. Unfortunately these prizes do not come within reach of a Pharmacist. However, he can get still larger profits from increased sales of own specialities, especially if my Business Pulling System is used. Booklet "How to Increase your Business," which fully explains my methods, will be sent post free on application to Pharmacists only. Only one Pharmacist in a locality supplied. Agricultural and Horticultural trade treated separately.

BILLYARD ALLISON, Pharmacist & Business Specialist, RETFORD

MOST REMARKABLE FEATURE

The results of my last advert. is not the new clients—they not ving had time yet to investigate—but the return of no less than r former clients to my fold. It is evident they find that, though course they can do without me, they **CAN DO MORE PROFITLE BUSINESS** if I act as guide, philosopher, and friend. Will let me act that part to you also, as I have already done to over others. Booklet free. Trading Motto: "Clients' Interests First." als declined; one man, one locality. See if I am free for yours.

Bernard Slack, 9 King St. Tel. No 581. Wolverhampton.

PROPRIETARY ARTICLES.

WHAT offers? 12 Hayman's balsam; 5 4s. 6d. Poule's hop bitters; 72 Cleaver's terebene liq.; 12 Thierry's ointment; and 72 1s. 1½d. Cezoline ointment; 1 doz., 5s. c.fd. 12/27, Office of this Paper.

SHARES.

SHARES for Sale. See p. xxxii.

SHOP FITTINGS.

CARVED pediment; 49 in. long, 12 in. high, plate-glass tablet, lettered "Dispensing Department"; 15s. Sharman, Northwood.

FOR sale, 30 old oak drawers, width 7 in., depth 5 in., length 8 in.; suitable for Chemist or shop. Apply, Newman, 8 St. Mary's Place, Chippenham, Wilts.

FOUR sets best plate-glass shelves, 3 ft. long, 20 in., 16 in., 12 in. wide; 4 ft. upright bars and brackets; whole or part; 40s. per set. Lee, Chemist, Middlesbrough.

MISCELLANEOUS.

AMERICAN barber chair, Koch's hydraulic, nearly new; cost £14 14s., accept £8; suit dentist. "E.," 4 Festing Grove, Southsea.

OFFERS wanted.—2 mounted sets 15-in. cut-out painted zinc letters, "Drug Stores"; also Idris syphon-truck, perfect condition. Beck, 60 High Street, Stoke Newington, N.

TABLET machines; 2 in good running order, with punches for all sizes to ½ in.; also 1 h.p. gas-engine; may be seen in London; will be sold cheap. "G., 9 Campden Road, Croydon.

ONE 6-gal. pear-shaped carboy, cut stopper; 1 gross Mason's extract of herbs; 1 doz. 13½d. "Cure-I-Can" ointment; 10 2s. 9d. ditto; 2 4s. 6d. Liquozone; what offers? 11/27, Office of this Paper.

SOUTHALL'S materia medica specimens, cabinet, listed 30s., used twice, accept 19s.; microscope (Blackham, Wolverhampton), had little wear, cost 50s. accept 32s., suit student; 6 vols. of "Modern Physician," what offers? Evans, Chemist, Bradley, Bilston.

PINDAR'S D.A. tincture-press, 2 gal., strainer-plate broken, but quite usable, otherwise good condition, cost £7 10s.; cash offer requested, or would exchange for good modern microscope. Please state full particulars, Bibby's Drug Stores, Withington, Manchester.

It pays to pay for advertising in this Supplement.

XCHANGE COLUMN.

FOR DISPOSAL.

BOOKS AND PERIODICALS.

FO sale, 5 vols. Andrew Wilson's "Modern Physician"; clean l good condition; what offers? 80 Charles Road, Birmingham.

UN 'S "Histopathology of Skin Diseases," authorised translan, 19 coloured figures, 42 diagrams; new condition; cost 31s. 6d. ; offers? "Medicus," 40 City Road, Cambridge.

FORMULÆ.

1s. 6 PASTE, sticks strong leather, paper, cardboard, sample 3d.; other for tin; Inkin powder, 1d. packet makes ¼ pint jet-black ; also money-making (40 years) successful remedies of retired mist. Offers. Loba, Willesden.

OPTICAL AND PHOTOGRAPHIC.

WH offers? Optical trial-case containing 40 convex, 40 concave, 6 oloured lenses, type card, trial frames, screwdriver; assorted nes, 3¼ doz. gold-filled, 5 doz. nickel; ½ gross pairs assorted es in case; all quite new; cost 15 guineas. 15/15, Office of Paper.

TWE E by 10 field camera, R.R. lens, 3 slides, case, tripod, £5 15s., about £14; Staley's ¼-pl. reflex, 5 slides, case, Euryplan . F. 4.5, £10 15s.; R.R. lens, ¼-pl., brass mount, 7s. 6d., per bandage, 2½ in. wide; leather camera-case, cheap; 2 limelt jets, 4s. 6d. each. Lewis, 27 Glenthorne Road, Hammersh.

WANTED.

LIGHT delivery-truck for syphons, etc. Sharman, Northwood.

SECOND-HAND fittings. State lowest cash price, Pickering, Royston, Yorks.

GOOD rotary pill-machine; two and half grains. Albert Clarkson, Chemist, Burnley.

SQUIRE'S "Companion" (latest). Write, "R.," 123 West End Lane, Hampstead, N.W.

B.P. "Codex"; in good condition. Lowest price to Henderson, Chemist, Kirkcudbright, N.B.

SMALL carbolic tooth-powder tins; printed any design. Sample and price to Crayford Mills, Stratford, Essex.

SWAN-NECK carboy. Offered 2 large specie-jars; gilt covers; good condition. "Chemist," 24 Bouverie Road, Folkestone.

PLASTER models, Corn Silk Man and others, wanted immediately; must be as new. Slack, 9 King Street, Wolverhampton.

OPTICAL books; Minor, Major, Chemists' books; send prepaid for valuation; cash offers per return. Gower, Bookseller, Waterloo, Liverpool.

OLD filter (sponge), bearing following marks: "C. Sotherans, (Coat of Arms), 3, Improved Filter, 12 Little Britain, London, E.C." 11/8, Office of this Paper.

A SMALL complete set of mounted lenses for optical testing, state lowest price; second-hand dental foot-engine with burrs, drills, and appliances, in good order; also outfit for mechanical dentistry. State lowest prices and details, 150/21, Office of this Paper.

Here and There.

As a result of the concert of the Women Pharmacists' Association held on April 13, the sum of 30*l.* 10*s.* has been given to the Pharmaceutical Benevolent Fund.

"The Assistant Pharmacist," the official organ of the National Union of Assistant Pharmacists, has appeared this week. It contains the annual reports and several columns of paragraphs—grave and gay. It is to be supplied free to the members of the Union, and at 2*d.* per copy post free to others. It is to be published quarterly at 50 Grange Road, King's Heath, Birmingham.

Messrs. Potter & Clarke, Ltd., are offering a silver medal and bronze medal for the best collection of medicinal plants collected in any part of the United Kingdom, the Channel Islands, or the Isle of Man. Specimens should be mounted on cards (with name and natural order) and forwarded to 60-64 Artillery Lane, London, E., in June. The specimens should not exceed twenty-four in number, and marks will be awarded for quality rather than quantity.

Lecturing on "The Law Relating to Conspiracy" last Friday at the City of London School, Embankment, E.C., the Gresham Professor of Law, Dr. W. Blake Odgers, K.C., said the Trades Disputes Act, 1906, had considerably restricted the common law, and to some extent legalised conspiracy. A number of shop-assistants, for instance, may now, in the event of a master advertising for an assistant, go to a person who is about to apply and persuade him not to take the situation; but no such protection is afforded to employers, for should they combine against an assistant, they are still liable to be prosecuted for conspiracy.

The Interest in the Fairchild Scholarship and Prizes is growing, Mr. A. E. Holden, Secretary to the Trustees, informs us. He judges by the number of communications he is receiving in regard to the forthcoming competitive examination, which is to be held simultaneously in Cardiff, Dublin, Edinburgh, London, and Manchester in the last week of June. The scholarship is 50*l.* in cash and the prizes four of 5*l.* each. The subjects are elementary business knowledge, chemistry and materia medica, and practical pharmacy and prescription-reading. June 1 is the last day for applications. Particulars as to the conditions and forms for entry may be obtained from Mr. Holden, at Messrs. Fairchild Bros. & Foster's office, 64-65 Holborn Viaduct, London, E.C.

The second annual inter-city football match, Glasgow Pharmacy *v.* Edinburgh Pharmacy, was played at Chancelot Park, Leith, on Saturday, April 23, under the auspices of the Edinburgh Pharmacy Athletic Club. The teams were:

Glasgow.—G. Erentz, A. S. Anderson, T. Harkness, J. Rankine, J. Curley (Captain), W. Gallacher, G. M. McKenzie, A. Rankine, J. Harley, J. A. McGregor, and D. R. Morrison.

Edinburgh.—J. Hossack, G. G. Margach (Captain), J. Hardy, A. Mein, S. Winton, J. Forsyth, G. Winton, J. Blyth, J. Barrie, G. Mark, and J. Weston.

Glasgow won the toss and Mr. J. Rutherford Hill set the ball in motion. Edinburgh at once took up the lead, but half-time arrived without scoring. Ten minutes after resuming, Glasgow scored with a shot which gave Hossack no

chance, and that was the net result of the game. The victorious visitors were entertained to supper in Milne's Hotel, Mr. J. Rutherford Hill presiding, after which a programme of song and recitation was gone through and greatly enjoyed, Messrs. J. G. Fraser, Rowland, Stevenson, McLaren, Erentz, and Thorne contributing. Mr. E. O. Rowland, Vice-President of the Edinburgh club, congratulated the visitors, for whom Mr. Stevenson replied, also thanking their hosts. Our picture of the kick-off is from a photo by Mr. Rowland.

Returning to his home in Anderson's Walk, Albert Embankment, Vauxhall, one recent evening, a working man picked up a perfume-card and took it to his wife. The card had been obtained from Mr. Richard Thomas, Ph.C., of 13 Upper Baker Street and 97 High Street, Marylebone. The finder was prompted by his wife to write to the latter address asking if it would be possible for Mr. Thomas to send a few more cards, as they were "so refreshing." The wife had four weeks before presented her husband with twins, and, continued the writer, "the cards would make their clothes smell so nice. I would certainly send for some of the perfume, but, being only a poor man and just getting over great expenses, I thought if you would be so kind as to send me a few of your cards, I would certainly send for a bottle of perfume as soon as my funds would allow me. Not only that, I would advertise your perfume as much as possible." The manager purchased a few cakes of soaps to send with the cards to the little home at Vauxhall. The present elicited yet another letter from the recipient, who declared enthusiastically that the soaps would be very acceptable to the twins—a boy and girl. "Such soaps as these were beyond my means at present, but," he added, optimistically, "no doubt there will be a time when I shall be in a position to purchase them, and then I shall not forget to appreciate the one who was so good as to answer my request. My wife was greatly delighted, and joins with me in wishing you every success in business. We will do all in our power to advertise you; it will be a pleasure to us to do so." There is every indication that the Vauxhall man intends honestly to advertise his benefactor, for Mr. Thomas has not been deluged with letters from the Vauxhall district asking for free gifts of cards and soaps as the result of what might otherwise have been a friendly hint to his friends on the part of the proud father of twins.

Coming Events.

This Section of the "C. & D." is reserved for advance notice of meetings or other events which are sent to the Editor by Wednesday of the week before the meetings, etc., occur.

Monday, May 2.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 5 P.M. Annual meeting.

Society of Chemical Industry, London Section, Burlington House, Piccadilly, W., at 8 P.M. Dr. J. Gordon Parker on "The Principles of Tanning," and Mr. E. F. Rea on "The Crystalline Products of the Hydration of Portland Cement."

Tuesday, May 3.

Leicester Chemists' Association, Turkey Café, Granby Street, at 8 P.M. Annual meeting.

Wednesday, May 4.

Royal Society of Arts, John Street, Adelphi, London, W.C., at 8 P.M. Professor H. H. Turner, F.R.S., on "Halley and his Comet."

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council-meeting.

Pharmaceutical Society of Ireland, 67 Lower Mount Street, Dublin, at 3 P.M. Council-meeting.

Thames Valley Pharmacists' Association, Thames Valley Café, 40 Clarence Street, Kingston-on-Thames, at 8.30 P.M. Annual meeting.

Stockport Pharmacists' Association, County Restaurant, Petersgate, at 9 P.M. Ordinary meeting.

Thursday, May 5.

Chemical Society, Burlington House, Piccadilly, London, W., at 8.30 P.M. The papers to be read are: "The Correlation of Rock and River-water Analyses," by Mr. H. S. Shelton; "The Composition and Synthesis of Caoutchouc," by Mr. S. S. Pickles; "The Constituents of the Flowers of *Trifolium incarnatum*," by Mr. Rogerson; "The Absorption Spectra of Nicotine, Conine, and Quinoline as Vapours, Liquids, and in Solution," by Mr. J. E. Purvis; "Fluorones," by Messrs. F. G. Pope and H. Howard; "The Triazo Group. Part XIII. Triazomethylcarbimide (Triazomethyl cyanate)," by Dr. M. O. Forster and Mr. R. Müller.

Great Yarmouth Pharmaceutical Association, 156 King Street, at 8 P.M. Monthly meeting.

Friday, May 6.

Royal Institution of Great Britain, Albemarle Street, Piccadilly, London, W., at 9 P.M. Sir Almroth E. Wright on "Auto-inoculation."

The sixteenth Chemists' Exhibition will be opened at the Royal Horticultural Hall, Vincent Square, Westminster, London, S.W., on May 9, at 12 noon, by Mr. John C. Umney, F.C.S.

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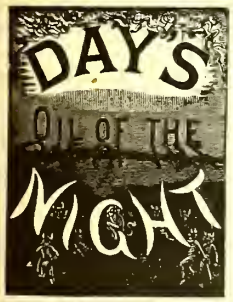

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*Acet. Ipecac. B.P., 7 lbs. @ 1/3 lb.
* „ Scillæ, B.P., 7 lbs. @ 3d. lb.
*Acid Acet. Glacial., 99%, Carboys 144 lbs. @ 4½d. lb.; 12 6-lb. bots. @ 6½d. lb.; 6 lbs. @ 8d. lb.
Acid Acetylo-Salicyl., 56 lbs. @ lb.; 7 lbs. @ 2/4 lb.; 1 lb. @ 2/6 lb.
„ Boric Pulv., 3 cwt. @ 28/- cwt.; 1 cwt. @ 28/6 cwt.; levigd. 3/- cwt. extra.
„ Carbol Xtls., 39/40; 56 lbs. @ 5d. lb.; 10-lb. Tins @ 5/- each; Detached Cryst., 8/- each; 36 1-lb. Bots. @ 8½d. lb., Single Bots. 11d. lb.; Detached Cryst., 1 lb. @ 1/1 lb.; Crude Black, 45 Gall. Casks @ 10d. Gall.; 1 Gall. Tins @ 1/5 each.
„ Diethylbarbituric, 16 oz. @ 34/- lb.; 1 oz. @ 2/6 oz.
* „ Hydrobrom., dil. B.P., 6 lbs. @ 6d. lb.
* „ Hydrocyan. P.B., 6 lbs. @ 1/1 lb.; 1 lb. @ 1/4 lb.; 36 1-oz. Vials @ 3/6 doz.
„ Oxalic Cryst., 5 cwt. @ 3¾d. lb.; 1 cwt. @ 3¾d. lb.; 14 lbs. @ 3½d. lb.
* „ Phosph. Dil., B.P., 8 lbs. @ 4½d. lb.
„ Salicyl. pulv., 7 lbs. @ 1/1 lb.; phys. pure, 1 lb. @ 3/- lb.
„ Tart., cryst. or pulv., B.P., 1885, 1 cwt. @ 9¾d. lb.; 7 lbs. @ 10¾d. lb.; parv. ½d. lb. extra.
Aloes Barb., English ground, 28 lbs. @ 66/- cwt.; 7 lbs. @ 8d. lb.
Ammon. Brom., P.B., 1 cwt. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.
*Inf Cascarilla Conc., 1 to 7, 6 lbs. @ 1/2 lb.
* „ Cinchonæ Acid, 1 to 7, 6 lbs. @ 1/7 lb.
* „ Gentianæ Co., 1 to 7, 6 lbs. @ 11d. lb.
* „ Quassiæ Conc., 1 to 7, 6 lbs. @ 9d. lb.
* „ Rhei Conc., 1 to 7, 6 lbs. @ 1/5 lb.
* „ Rosæ Acid. Conc., 1 to 7, 6 lbs. @ 1/8 lb.
* „ Senegæ Conc., 1 to 7, 6 lbs. @ 2/- lb.
* „ Valerian Conc., 1 to 7, 6 lbs. @ 1/3 lb.
Manna, fine New Flake, 14 lbs. @ 3/- lb.; 7 lbs. @ 3/2 lb.; 1 lb. @ 3/8 lb.
Menthol, dry white cryst., 60 lbs. @ 8/6 lb.; 5 lbs. @ 9/1 lb.
*Mist. Sennæ Comp. B.P., 20 lbs. @ 6½d. lb.; 6 lbs. @ 7½d. lb.
Morphinæ Acet. Hydrochlor. or Sulph., Pulv. B.P., 25 oz. @ 7/11 oz.; 16 oz. @ 8/1 oz.; 8 oz. @ 8/2 oz.; 1 oz. @ 8/6 oz.; Pur. Præcip., Bimeconate or Tart., 1 oz @ 11/- oz.
Naphthaline, Candles or Balls, 1 cwt. @12/- cwt.; 56 lbs. @ 14/- cwt.; 28 lbs. @ 15/6 cwt.
Ol. Ricini Alb. Opt. Medicinal, 176 lbs. @ 38/6 cwt.; 88 lb. @ 41/- cwt.; 44 lbs. @ 42/6 cwt.; 9 lbs. @ 6d. lb.; for export, 1 cwt. drums recommended, 7/6 each extra.
Potass. Iod. P.B., 1 cwt. @ 7/9 lb.; 14 lbs. @ 7/10 lb.; 3 lbs. @ 7/11 lb.
Potass. Permang., Cryst., 1 cwt. @ 38/- cwt.; 7 lbs. @ 5d. lb.; large cryst., 7 lbs. @ 6d. lb.
Potass. Prussias Flav., 7 lbs. @ 7½d. lb.
Pulv. Glycyrrh. Co. B.P (Green), English Ground, 56 lbs. @ 33/- cwt. [lb.
Quassia Chips, 1 cwt. @ 12/6 cwt.; 28 lbs. @ 2d.
Soda Cit., B.P., 3 lbs. @ 1/10 lb.
Soda Salicyl. Pulv., 7 lbs. @ 1/5 lb.; phys. pur. 28 lbs. @ 2/2 lb.; 1 lb. @ 2/5 lb.
Soda Sulphite Recryst., 1 cwt. @ 16/6 cwt.; 7 lbs. @ 4d. lb.
Sodii Bromid, P.B., 1 cwt. @ 1/0½ lb.; 7 lbs. @ 1/2 lb.
Soda Hyposulphite, pea cryst., 1 cwt. @ 8/6 cwt.
*Spt. Æther Nit. P.B., 4½ lbs. @ 3/6 lb.. 1 lb. @ 3/9 lb.
*Sp. Ammon. Aromat. P.B., 5 lbs. @ 2/8½ lb.
*Spt. Chloroformi, P.B., 5 lbs. @ 3/7 lb.
Strychnina cryst, B.P., 25 ozs. @ 2/- oz.; 1 oz. @ 2/3 oz; Hydrochlor. and Sulphate, 2d. oz. less.
Sugar of Milk, B.P., 1 cwt. @ 44/- cwt.; 7 lbs. @ 6d. lb.
Sulphonal P.B., 1 lb. @ 9/6 lb.
*Syr. Auraut. P.B., 7 lbs. @ 9d. lb.
*Syr. Easton B.P., 7 lbs. @ 1/- lb.
* „ Ferri Iodid. P.B., 7 lbs. @ 1/1 lb.
* „ Ferri Phosphat. Co., 7 lbs. @ 5d. lb.
* „ Hypophosph. Co. B.P.C., 7 lbs. @ 9d. lb.
*Syr. Pruni Virg. B.P., 8 lbs. @ 7d. lb.
* „ Rhamni, 7 lbs. @ 10d. lb.
* „ Rhei P.B., 7 lbs. @ 7½d. lb.
* „ Scillæ P.B., 7 lbs. @ 4½d. lb.
* „ Sennæ P.B., 7 lbs. @ 8d. lb.
* „ Tolut. P.B., 7 lbs. @ 7d. lb.
Thymol, 7 lbs. @ 6/6 lb.; 1 lb. @ 6/10 lb.
*Tinct. Aurantii Recens, B.P., 5 lbs. @ 3/6 lb.; Bond, 8½d.
*Tinct. Belladon., B.P., 5 lbs. @ 2/11 lb.; Bond, 6½d.

TWO GUINEAS & ONE GUINEA

Reward will be paid as **First** and **Second** Prizes to any Chemist or Chemist's Assistant in Business who furnishes the best **workable** and **businesslike suggestion** for any Improvement **capable of adoption in our Weekly Advertisement in this Paper.** All Competitors must bear in mind the lines upon which the Business has been so successfully built up: viz., Cash with Order. Competitors should state their full Name, Address and Occupation, and whether they desire their name to appear in our Advertisement in the event of their being successful. The Competition will close on the 11th of June, 1910, so as to enable our Friends resident abroad to compete.

Ammon. Carb. lump, 3 cwt. @ 3¾d. lb.; 28 lbs. @ 4½d. lb.; 7 lbs. @ 5d. lb.; powder, ½d. lb. extra.
Bismuth, P.B. Carb., 28 lbs. @ 7/6 lb.; 14 lbs. @ 7/9 lb.; 3 lbs. @ 8/1 lb.; subnit., 1/- lb. less.
Calcii Carb. præcip., 5 cwt. @ 12/6 cwt.; 1 cwt. @ 14/- cwt.; 28 lbs. @ 19/- cwt.
Camphor, English Flowers, "not artificial," 5 lbs. @ 1/10 lb.; ¼ oz. 7 lbs. @ 1/11 lb.; ½ oz. 7 lbs. @ 2/3½ lb. Crude, good white about 92% as imported, 140 lbs. @ 1/4 lb.; 10 lbs. @ 1/5 lb.
Cocaine Hydrochlor. B.P., 25 ozs. @ 6/10 oz.; 4 ozs. @ 7/3 oz.; 1 oz. @ 7/6 oz.
Codeina, 1 oz. @11/5 oz.; Phosph., 1 oz. @ 9/11 oz.; Hydrochlor. or Sulph. 1 oz. @ 10/7 oz.
Cream Tartar, 98% powder, 1 cwt. @ 76/- cwt.; 7 lbs. @ 9d. lb.
*Ess. Pear (artificial), Jargonelle, 5 lbs. @ 1/6 lb.; Bergamot, 2/6 lb.
*Ess. Pineapple, 5 lbs @ 3/4 lb.
* „ Raspberry, 5 lb. @ 2/2 lb.; 1 lb. @ 2/6 lb.
* „ Vanilla Beans, 5 lbs. @ 4/4 lb.; 1 lb. @ 4/7 lb.
*Ext. Ergot. Liq. P.B., 5 lbs. @ 2/11 lb.; 1 lb. @ 3/2 lb.
*Ext. Ergot. solid B.P., 7 lbs. @ 12/6 lb.; 1 lb. @ 13/- lb.
*chthyol Ammon., 3 lbs. @ 10/9 lb.; 1 lb. @ 11/- lb.
Inf. Aurant. Conc., 1 to 7, 6 lbs. @ 1/1 lb.
„ Aurant. Comp. Conc., 1 to 7, 6 lbs. @ 1/3 lb.
„ Buchu Conc. 1 to 7, 6 lbs. @ 1/5 lb.
„ Calumbæ Conc., 1 to 7, 6 lbs. @ 11d. lb.
„ Caryoph. Conc., 1 to 7, 6 lbs. @ 11d. lb.
Quinine Bisulpb, 100 oz. @ 8d. oz.; 25 oz. @ 9d. oz.; 10 oz. @ 10d. oz.
Quinine Ethyl Carb. (Tasteless), 100 oz. @ 2/- oz.; 10 oz. @ 2/6 oz.
Quininæ Hydrobromas or Salicylate, B.P., 100 oz. @ 11½d. oz.; 25 oz. @ 1/0½ oz.; 10 oz. @ 1/2 oz.
Quininæ Hydrochlor., B.P., 100 oz. @ 11d. oz.; 25 oz. @ 1/- oz.; 10 oz. @ 1/2 oz.
Quininæ Sulph., B.P., 100 oz. @ 6¾d. oz.; 25 oz. @ 7½d. oz.; 10 oz. @ 8d. oz.
Rad. Jalap., English Ground, 28 lbs. @ 1/7 lb.; 7 lbs. @ 1/9 lb.
Rad. Rhei, E. I., English ground, 1 cwt. @ 1/- lb.; 28 lbs. @ 1/1½ lb.; 7 lbs. @ 1/3 lb.
Saccharine .550 or .500, 7 lbs. @ 34/6 lb.; 1 lb. @ 35/6 lb.; .330, 7 lbs. @ 27/- lb.; 1 lb. @ 28/6 lb. For Export only, 1 cwt. lots @ 5/- lb. for .550.
Sacchar. Ust., 1 cwt. @ 25/6 cwt.; 10 lbs. @ 4d. lb.
Sal. Acetos., 1 cwt. @ 5½d. lb.; 56 lbs. @ 6½d. lb.; 7 lbs. @ 7d. lb.
Salicinum, B.P., 1 lb. @ 16/6 lb.
Salol, B.P., 7 lbs. @ 2/3 lb.; 1 lb. @ 2/6 lb.
Sang. Draconis pulv., English ground, 1 cwt. @ 1/10½ lb.; 7 lbs. @ 2/0½ lb.
Santoninum, P.B., 7 lbs. @ 37/9 lb.; 1 lb. @ 38/9.
Sapo Cast. Alb., 10 cwt. @ 24/- cwt.; 2 cwt. @ 25/- cwt; 7 lbs. @ 3½d.; pulv., 1 cwt. @ 60/6 cwt.; 56 lbs. @ 64/- cwt.; 7 lbs. @ 7½ lb. Animal pulv., 1 cwt. @ 55/- cwt.; 56 lbs. @ 60/- cwt.; 7 lbs. @ 7d. lb.
Shellac (Orange), 1½ cwt. @ 70/- cwt.; 7 lbs. @ 10d. lb.
*Tinct. Benzoini Comp., P.B., 5 lbs. @ 3/5 lb.; Bond, 8½d.
*Tinct. Camph. Comp., P.B., 5 lbs. @ 2/5 lb.; Bond, 6¾d.
*Tinct. Cantharidis, P.B., 5 lbs. @ 3/9 lb.; Bond, 6d. lb.
*Tinct. Capsici, B.P., 5 lbs. @ 3/3 lb.; bond, 6d. lb.
*Tinct. Card. Comp., P.B., 5 lbs. @ 2/6 lb.; bond, 6½d. lb.
*Tinct. Catechu, P.B., 5 lbs. @ 2/8 lb.; bond, 6¾d. lb.
*Tinct. Chlorof. c. Morph. Comp., B.P., 1885, 5 lbs. @ 1/11 lb.; bond, 1/5½ lb.
*Tinct. Cinchon. Comp., B.P., 5 lbs. @ 3/5 lb.; bond, 10½d. lb.
*Tinct. Cinchon. Rub., P.B., 5 lbs. @ 3/- lb.; bond, 10d. lb.
*Tinct. Digitalis, B.P., 5 lbs. @ 2/8 lb.; bond, 6½d. lb.
*Tinct. Gelsem. B.P., 5 lbs. @ 2/10 lb.; bond, 6½d. lb.
*Tinct. Gentianæ Comp., B.P., 5 lbs. @ 1/11½ lb.; bond, 6½d. lb.
*Tinct. Hyoscyami, B.P., 5 lbs. @ 2/5 lb.; bond, 6½d. lb.
*Tinct. Iodi. B.P., 5 lbs. @ 3/11 lb.; bond, 1/1½ lb.; decolor, 5 lbs. @ 4/3 lb.; bond, 1/0½.
*Tinct. Lavandulæ Comp., B.P., 5 lbs. @ 3/10 lb.; bond, 7¼d. lb.
*Tinct. Myrrhæ, B.P., 5 lbs. @ 3/9 lb.; bond, 9¾d. lb.
Ung. Acid. Boric. P.B., 28 lbs. @ 6d. lb.; Flav. 28 lbs. @ 4½d. lb.
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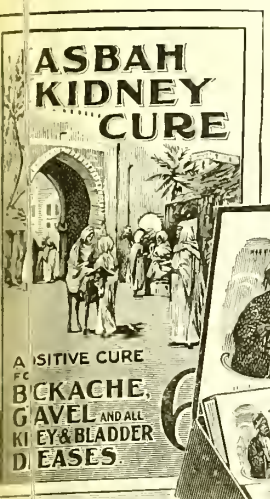

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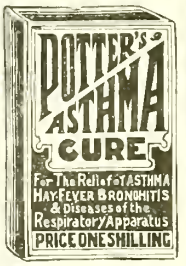

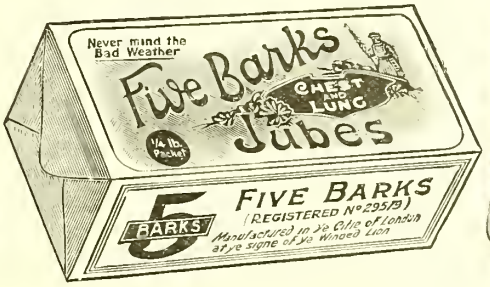

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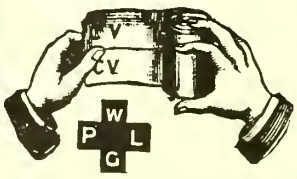

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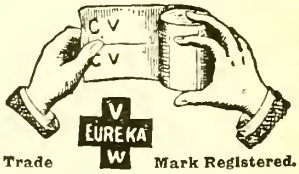

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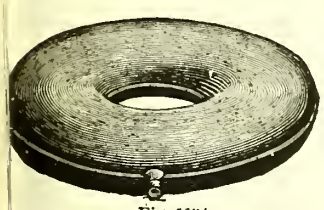

Fig. 1194.

NOTE THE LOW PRICES

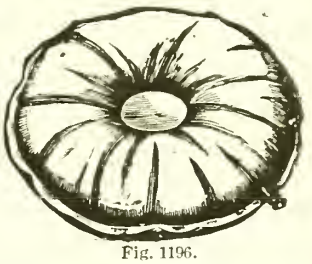

Fig. 1196.

	DIA.	12	13	14	15	16	17	18	20
ig. 1194.—Red Rubber circular Cushion, each	...	5 0	5 6	6 0	6 6	7 0	7 9	8 9	11 0
Grey ,, ,, ,, ,,	...	4 6	5 0	5 6	6 0	6 6	7 0	8 0	10 0
958.—Drab proof ,, ,, ,,	...	4 6	5 0	5 6	6 0	6 6	7 0	7 6	9 0
1351.—Sateen ,, ,, ,, ,,	...	5 0	5 6	6 0	6 6	7 3	8 0	9 0	11 0
1196.—Drab proof circular Pillow ,,	...	3 6	4 0	4 6	4 10	5 3	5 9	6 3	7 6
1350.—Sateen ,, ,, ,, ,,	...	3 9	4 3	4 9	5 3	6 0	6 9	7 6	9 0
1353.—Red rubber square Cushion ,,	...	...	...	8 6	9 6	10 6	12 0	13 6	16 6

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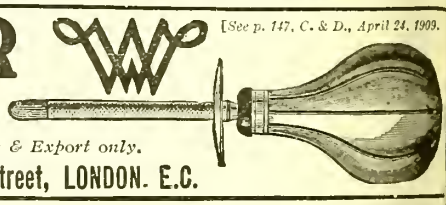
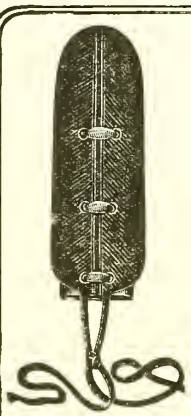
[See p. 147, C. & D., April 24, 1909.





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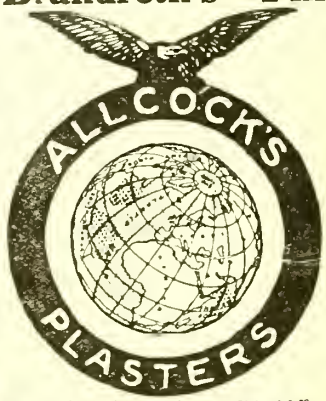

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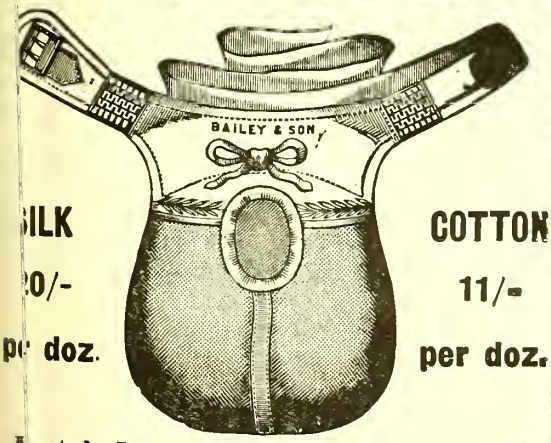

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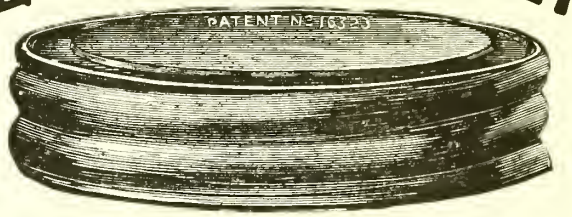

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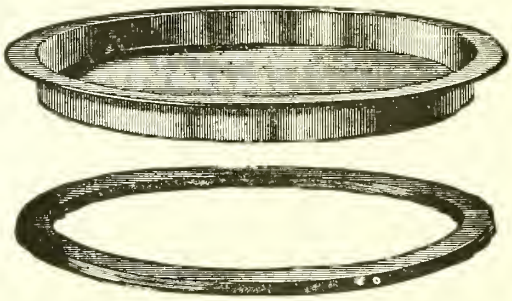

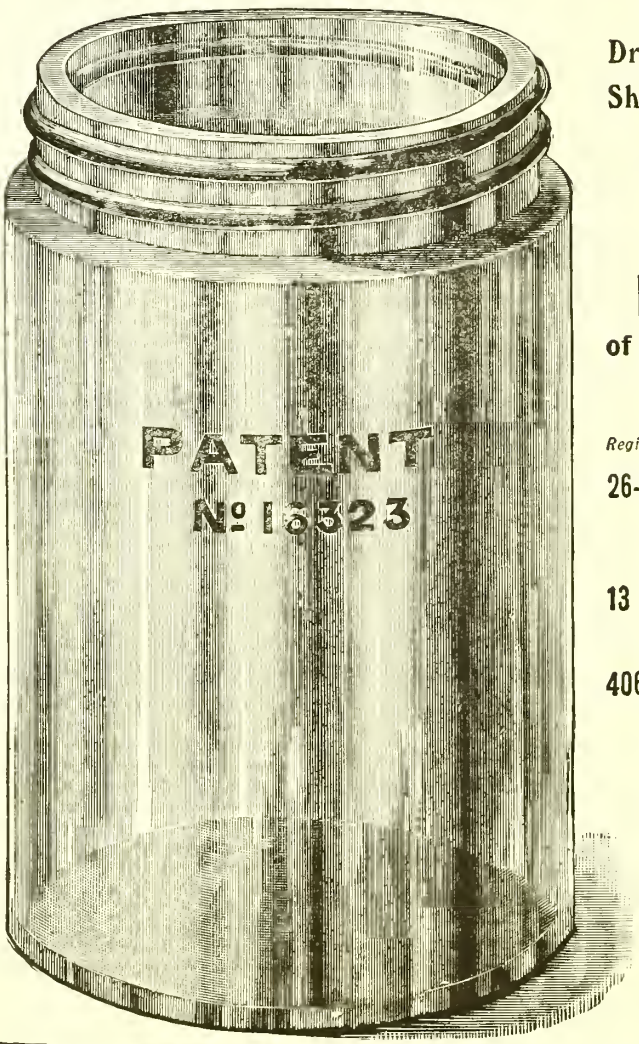

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